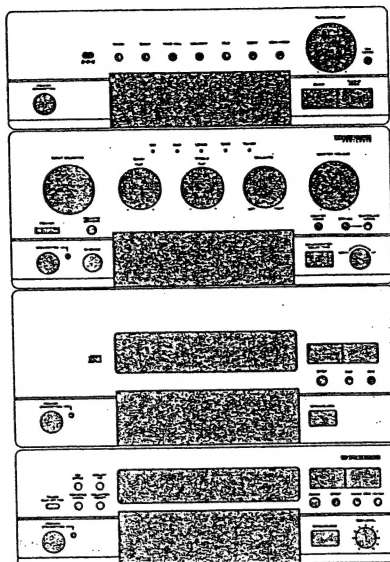


Baustein-Set



UTS-Nr.: 999 QUELLE
 Best.Nr.: 0357517/01
 Ger.Bez.: UNIVERSUM-BAUSTEIN-SET

GKz: G GERAET
 WGT: 653 STEREO-EINZELBAUST. ,BAUSTEINE-SET
 KD-Sektor: R RUNDfunk
 BaumNr.: 00 KEIN DIAGNOSEBAUM VORHANDEN
 Klassierung: STG STEREOG., TUNER, VERST., STEUERg
 IFW-FehlerGru.: 205 RDF.,VERST.,TB.,PHONO,CD,CB
 Type/Privileg/Universum.Nr VTC-CD4096
 Beschreibung
 VK-Preis: 1498.00

Serviceart: 01 PROfectIS
 Garantie fuer Kunden 12 Monate
 Sondervereinbarungen: 0 SIEHE SERVICEART

Garantiereparatur 0004063 PROfectIS GMBH
 Sondervereinbarungen: 0 SIEHE SERVICEART

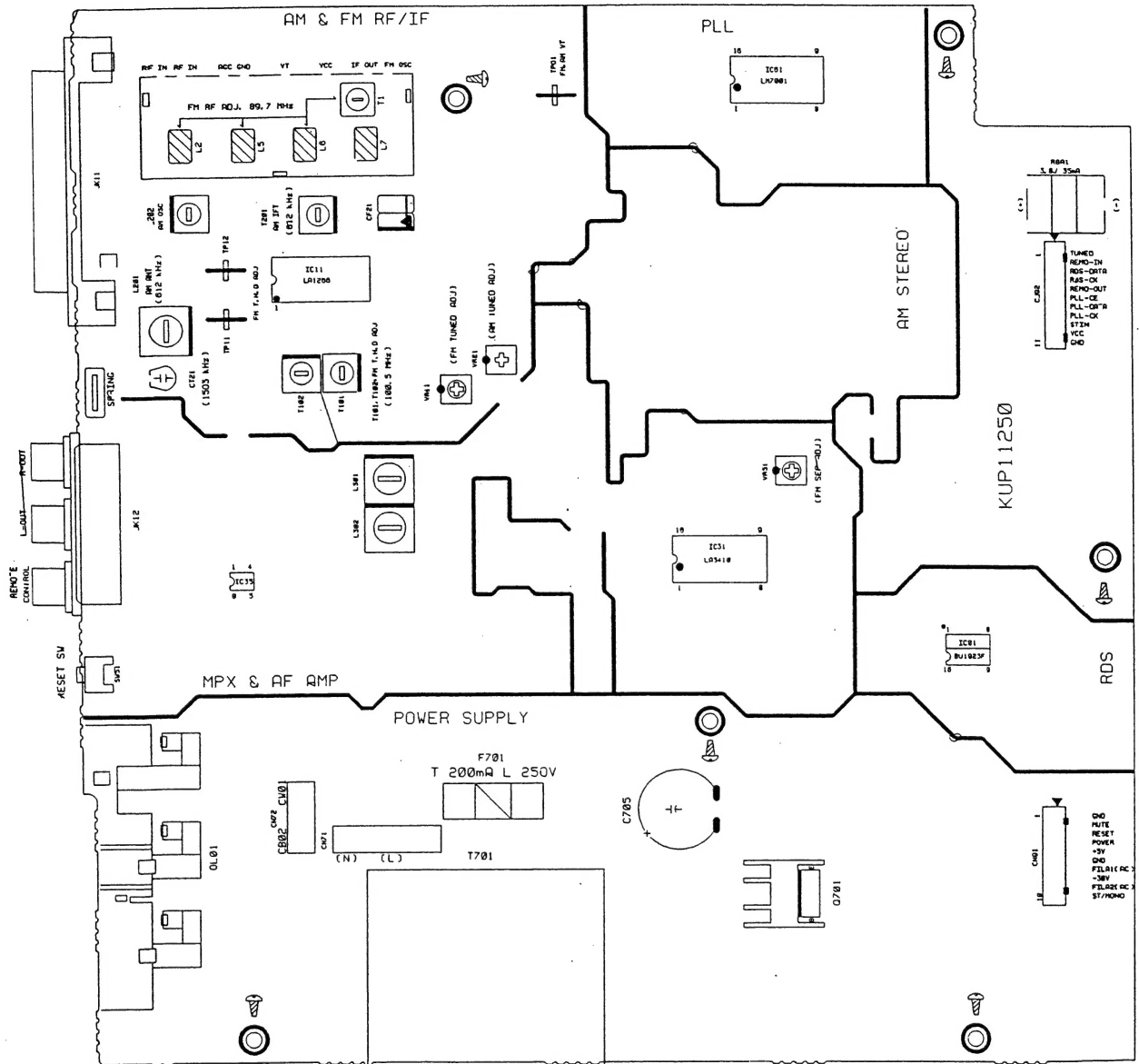
Katalog	Seite
Erst 994 HAUPTKATALOG H/W 99	1409
Letzt 000 NOCH IM AKTUELLEN KATALOG	0000

Geraete Info:

Technische Daten:

Fehler:

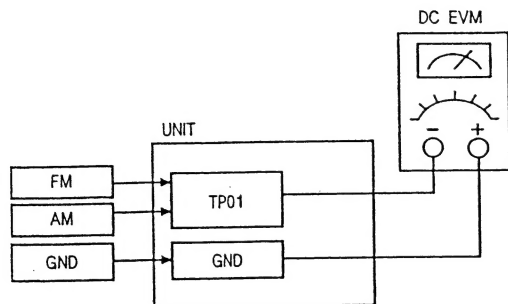
1 DIVERSE FEHLER
 DIVERSE FEHLER: SIEHE FEHLERBESCHREIBUNG DER
 ANLAGEN QBNR:036765 BZW. 038035



MEASUREMENTS AND ADJUSTMENTS

1. TUNING FREQUENCY RANGE ADJUSTMENTS

(FM, AM) DC VOLT METERCONNECT TO TEST POINT TP01 and GND

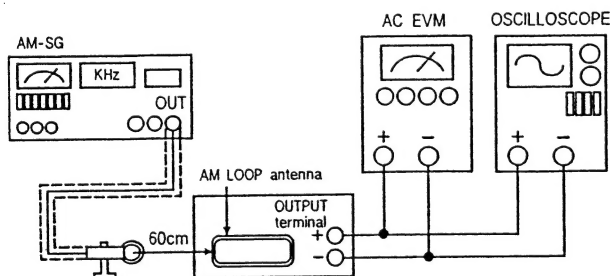


No	Band	Frequency	Adjust for	Adjustment
1	FM	87.50MHz	1.5V	L7
2	AM	522KHz	1V	L202

2. AM TRACKING ADJUSTMENT

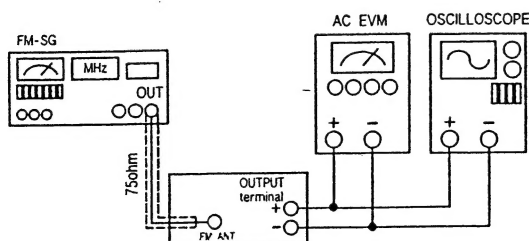
Signal GeneratorConnects to the AM Ant. Coil through the loop antenna.
Adjust for the indication of VTVM of the wave form of scope to be maximum.

BAND	Step	Frequency	Adjust for	Adjustement
AM	1	612KHz	Maximum sensitivity	L201, T201
	2	1503KHz	Maximum sensitivity	CT21
	3	Repeat steps 1 and 2 several times		



3. FM-RF ADJUSTMENT

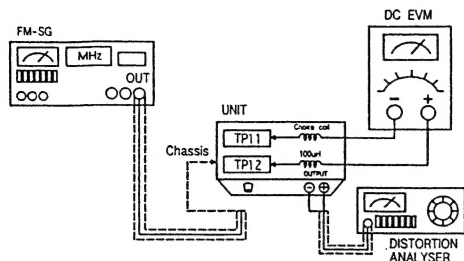
Signal GeneratorConnect to FM ANT JACK (FM IN) through the dummy.



No	Frequency	Adjust for	Adjustment
1	90.10MHz	Maximum Sensitivity	L2, L5, L6
2	Repeat step 1 several times		

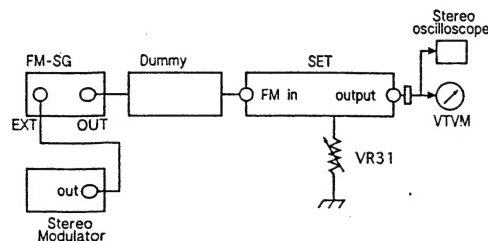
4. FM MONO DISTORTION ADJUSTMENT

DC VOLT METERConnect to TP11(-), TP12(+) Through the choke coil (100 μ H)
 Signal GeneratorConnect to FM ANT Jack (FM IN) through the dummy.
 Distortion MeterConnect to the output.



No	Frequency	Adjust for	Adjustment
1	100.10MHz	DC Voltmeter 0V	T101
2	100.10MHz	Minimum T. H. D	T102
3	Repeat steps 1 and 2 Several times.		

5. FM STEREO SEPARATION



Pilot signal	Adjust for	Adjustment
ON	Different of R and L must be maximum	VR31

NOTE : In case of adjusting the stereo separation, of input is L (or R) channel, R (or L) channel must be maximum.

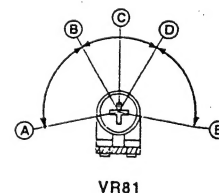
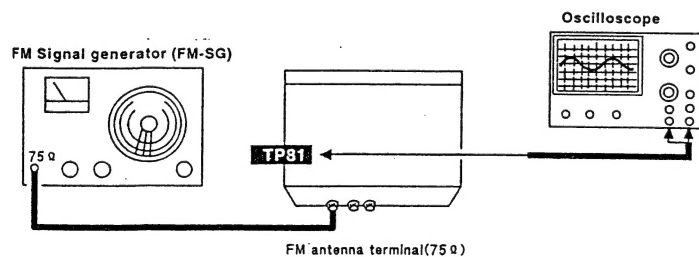
6. FM/AM AUTO STOP LEVEL ADJUSTMENT

FM SIGNAL GENERATORConnec to FM ANT Jack(FM IN)through the dummy
 AM SIGNAL GENERATORConnect to AM ANT, Coil through the Loop antenna

BAND	STEP	SIGNAL GENERATOR	Adjust for	Adjustment
FM	1	100.1MHz 35dB	<input type="checkbox"/> TUNED Display OFF	VR11
	2	100.1MHz 35dB	<input type="checkbox"/> TUNED Display ON	VR11
AM	1	999KHz 80dB	<input type="checkbox"/> TUNED Display OFF	VR21
	2	999KHz 80dB	<input type="checkbox"/> TUNED Display ON	VR21

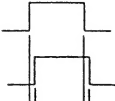
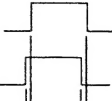
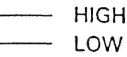
7. FM RDS ADJUSTMENT [EUR]

FM Signal Generator(RDS IN)Connect to FM ANT Jack(FM IN) through the dummy
 OscilloscopeConnect to TP81(+) GND(-)

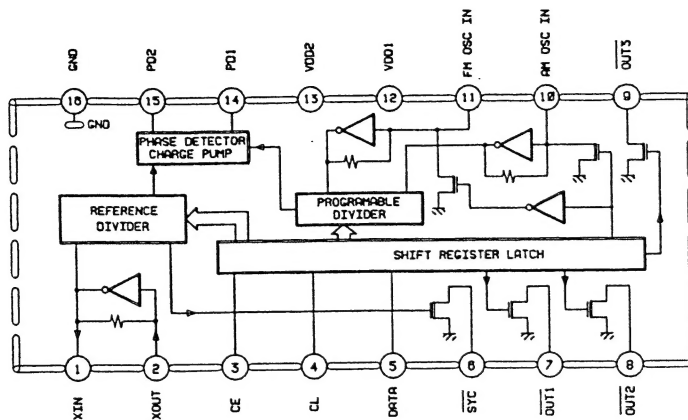


- A-B, D-E : RDS OFF position.
- B-D : RDS ON position. (indicator lighting)
- C : Adjust point of RDS circuit. (TP81 : 1.0~1.2V)

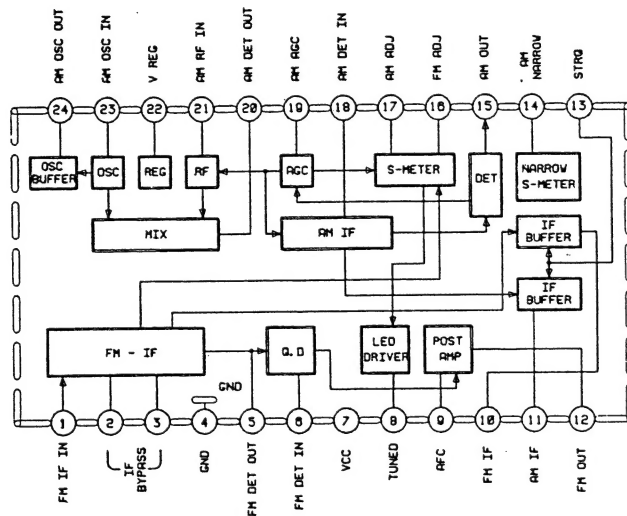
IC FUNCTION

PIN No.	SYMBOL	IN/OUT	DESCRIPTION
1	REMOT IN	I	REMOTE CONTROL INPUT
2	VCC	I	VDD CONNECTION
3	BACK UP/CE	I	BACK UP MODE CONTROL
4, 94	TUNING UP / DOWN	I	<div> <div> TUNING UP  </div> <div> TUNING DOWN  </div> <div> HIGH LOW  </div> </div>
5	TUNED	I	TUNED DISPLAY INPUT
6, 7, 9, 10	N.C		NO CONNECTION
11	RDS DATA	I	RDS DATA INPUT
8, 12~14	AREA OPTION	I	12, GROUND (EUROPE)
15, 20	N.C		NO CONNECTION
16~19	KEY IN	I	KEY MATRIX INPUT
21~23	KEY OUT	O	KEY MATRIX OUTPUT
24	N.C		NO CONNECTION
25	POWER	O	TUNER POWER ON
26	MUTE	O	MUTE OUTPUT
27	MONO/STEREO	O	MONO/STEREO SWITCHING OUTPUT
28~37	N.C		NO CONNECTIN
38	RESET	I	RESET IN
39	EXTAL	O	8.0MHz CRYSTAL U-COM OPERATOR
40	XTAL	I	
41	VSS		GROUND
42	TX	I	32.768KHz CRYSTAL TIME OPERATOR
43	TEX	O	
44, 45	N.C		NO CONNECTION
46	AVREF		+4.8V VDD
47	AVSS		ANALOG GROUND
48~70	S0~S22	O	FIP SEGMENT OUTPUT
71~74	N.C		NO CONNECTION
75~87	G13~G0	O	FIP GRIDE OUTPUT
88	VFIP	I	FIP VDD : -30V
89, 90	VDD	I	+4.8V VDD
91	VSS		GROUND
92, 93	N.C		NO CONNECTION
95	STEREO	I	STEREO INPUT
96	PLL-CK	O	PLL SERIAL CLOCK OUTPUT
97	PLL-DI	O	PLL SERIAL DATA OUTPUT
98	PLL-CE	O	PLL SERIAL CHIP ENABLE OUTPUT
99	REMOTE OUT	O	REMOTE CONTROL OUTPUT
100	RES CK	I	RDS CLOCK INPUT

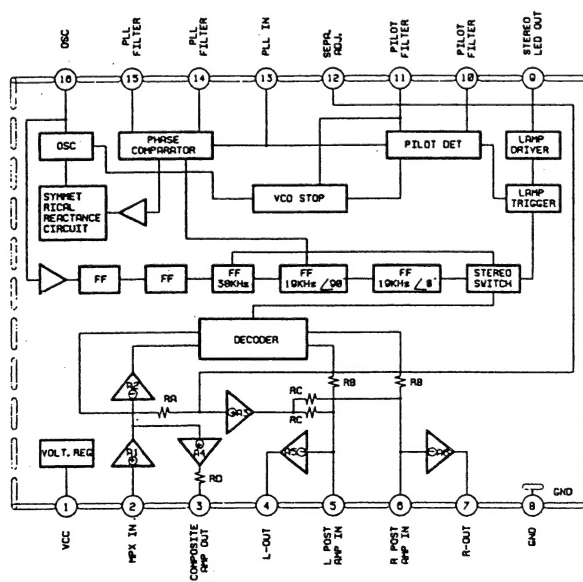
LM7001 PLL



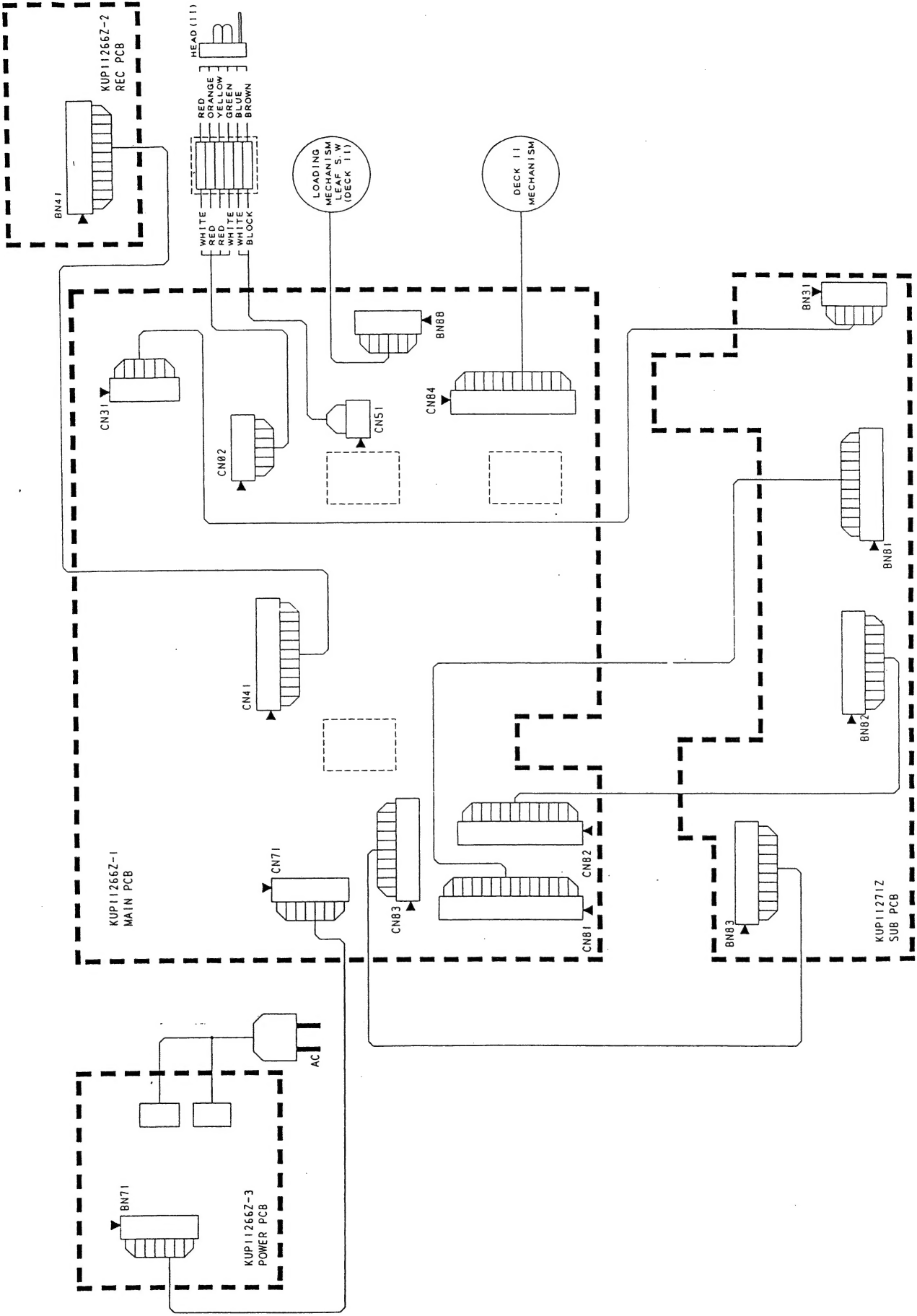
LA1266 FM IF & AM RF/IF



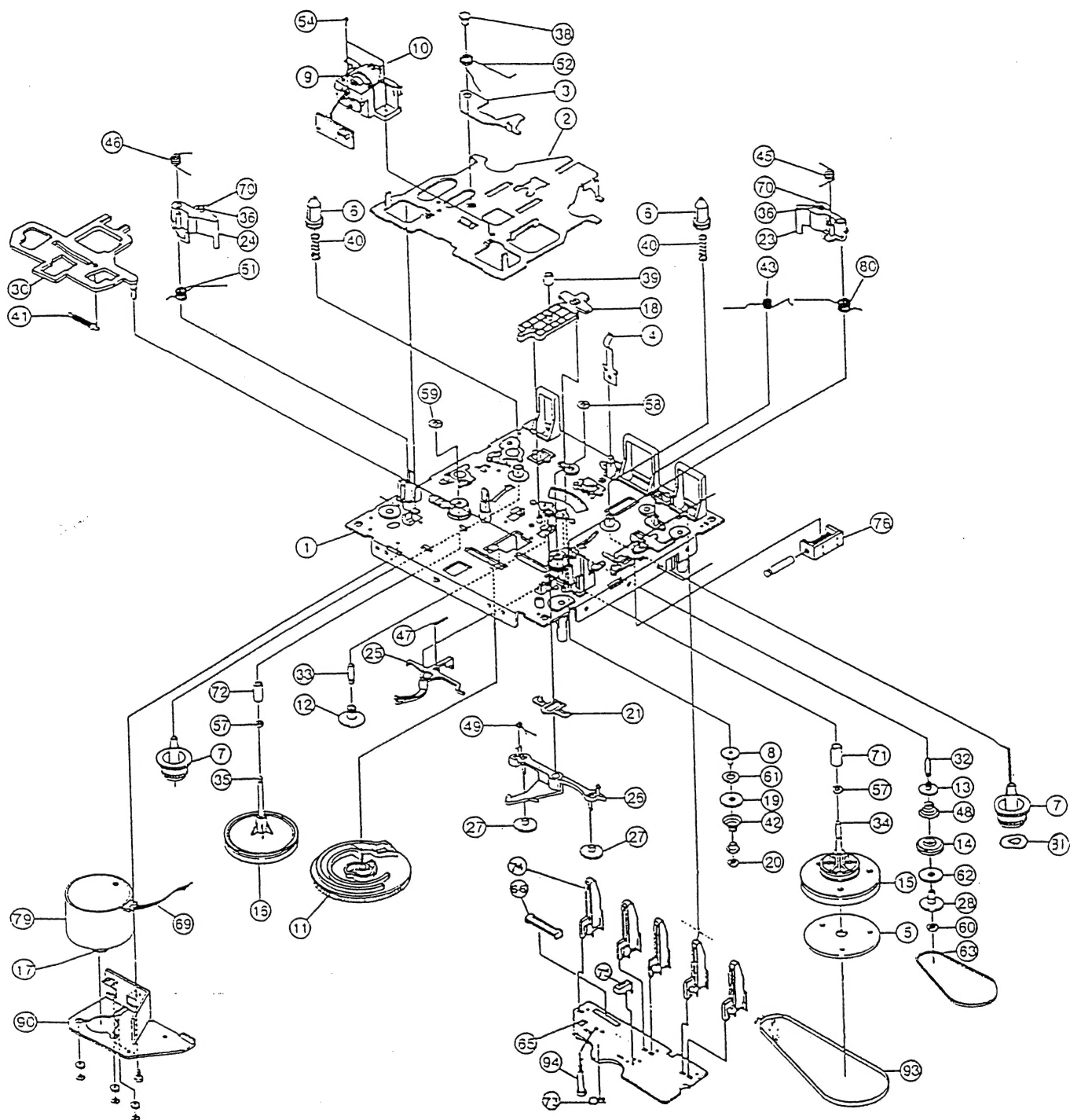
LA3410 MPX



WIRING DIAGRAM



MECHANISM

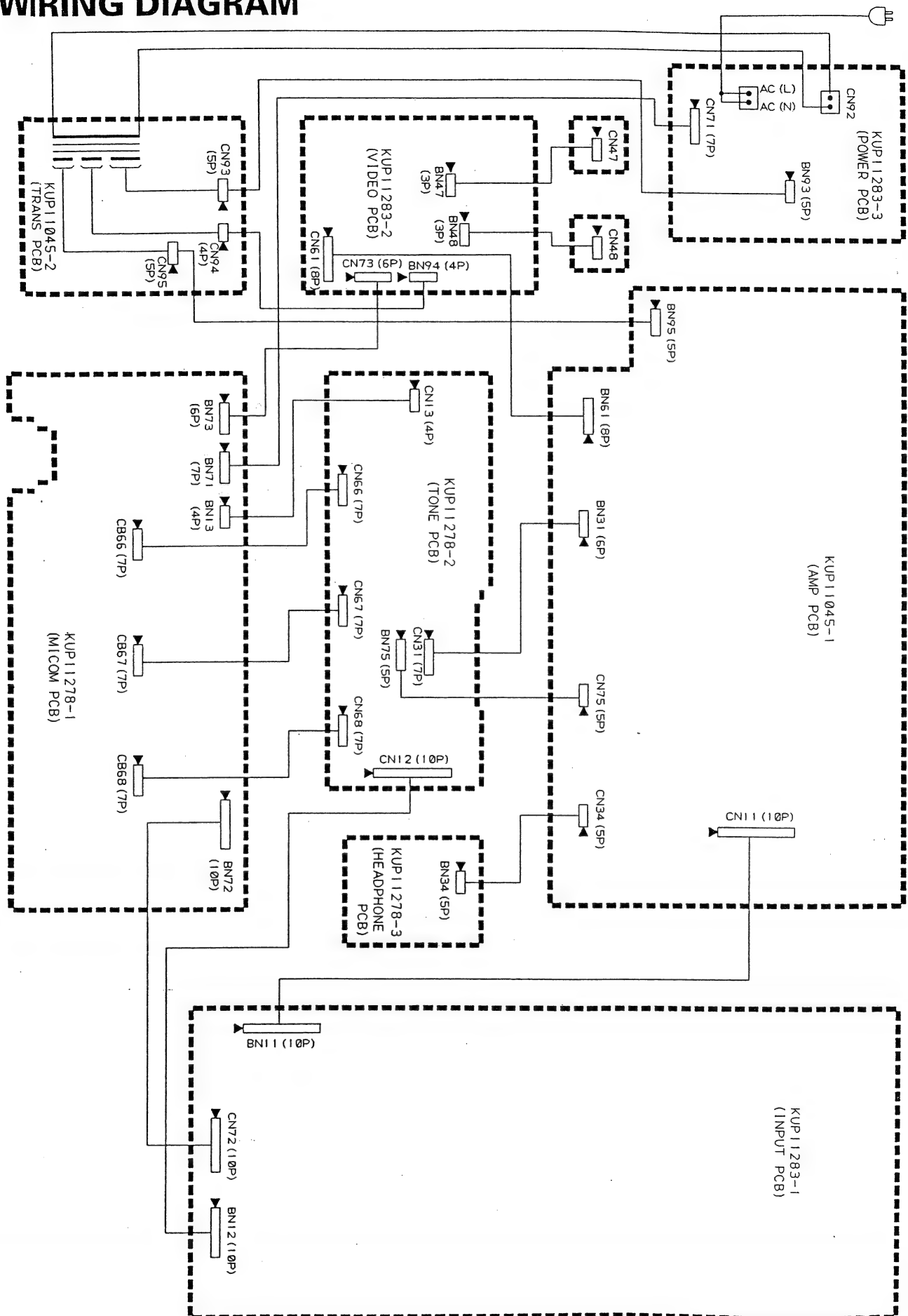


IC PIN FUNCTION (ANAM 1286M : NEC uPD 78P 0208GF)

AMPLIFIER

PIN No.	SYMBOL	I/O	DESCRIPTION
1	VDD		POWER SUPPLY (+5V)
2	PWR ON H	O	WHEN "POWER ON" IS "H"
3~7	FUNC. INDICATOR	O	FUNCTION LED DRIVE OUTPUT
8	SURR ON/OFF	O	WHEN "SURROUND ON" IS "H"
9	POWER MUTE	O	HEADPHONE MUTE CONTROL OUTPUT
10	RESET	I	SYSTEM RESET INPUT
11,12	X OUT/IN	O/I	4.19MHz CRYSTAL CONNECTION TERMINAL
13	GND		GROUND
14	N/C		
15	PROTECT IN	I	INPUT FROM PROTECTION CIRCUIT
16	VDD		POWER SUPPLY (+5V)
17	STB	O	IC11 (NJU7312L) CONTROL OUTPUT
18	CLK	O	
19	DATA	O	
20	STB	O	IC21 (LA2786), IC22 (LV1015) CONTROL OUTPUT
21	CLK	O	
22	DATA	O	
23	CENTER MUTE	O	CENTER CHANNEL MUTE CONTROL OUTPUT
24	REAR MUTE	O	WHEN "SURROUND ON" IS "H"
25	GND		GROUND
26	AMP MUTE	O	SIGNAL MUTE CONTROL OUTPUT
27	POWER MUTE	O	SPEAKER CONTROL OUTPUT
28	-20dB MUTE	O	-20dB MUTE CONTROL OUTPUT
29,30	AC/BD	O	IC61 (BA7626) CONTROL OUTPUT
31	OPTION	I	V-4096 OPTION PORT
32,33	NC		
34	VDD		POWER SUPPLY (+5V)
35	VREF	I	REFERENCE VOLTAGE
36	BUS IN	I	SYSTEM CONTROL INPUT
37,42	MODE	I	REAR/CENTER/DELAY TIME UP/DN CONTROL INPUT
38,43	FUNCTION	I	FUNCTION SW UP/DN CONTROL INPUT
39	REMOTE IN	I	REMOTE CONTROL INPUT TERMINAL
40	GND		GROUND
41	BUS OUT	O	SYSTEM CONTROL OUTPUT
44,45	VR UP/DOWN	O	MASTER VOL. UP/DN CONTROL OUTPUT
46	VDD		POWER SUPPLY (+5V)
47~51	FIP	O	
52~56	KEY IN/OUT	O/I	KEY MATRIX INPUT/OUTPUT
57~62	FIP	O	GROUND
63~67	FIP	O	
68~78	FIP	O	SEGMENT
79	V LOAD	I	NEGATIVE POWER SUPPLY
80~90	FIP	O	SEGMENT
91~100	FIP	O	GRID

WIRING DIAGRAM



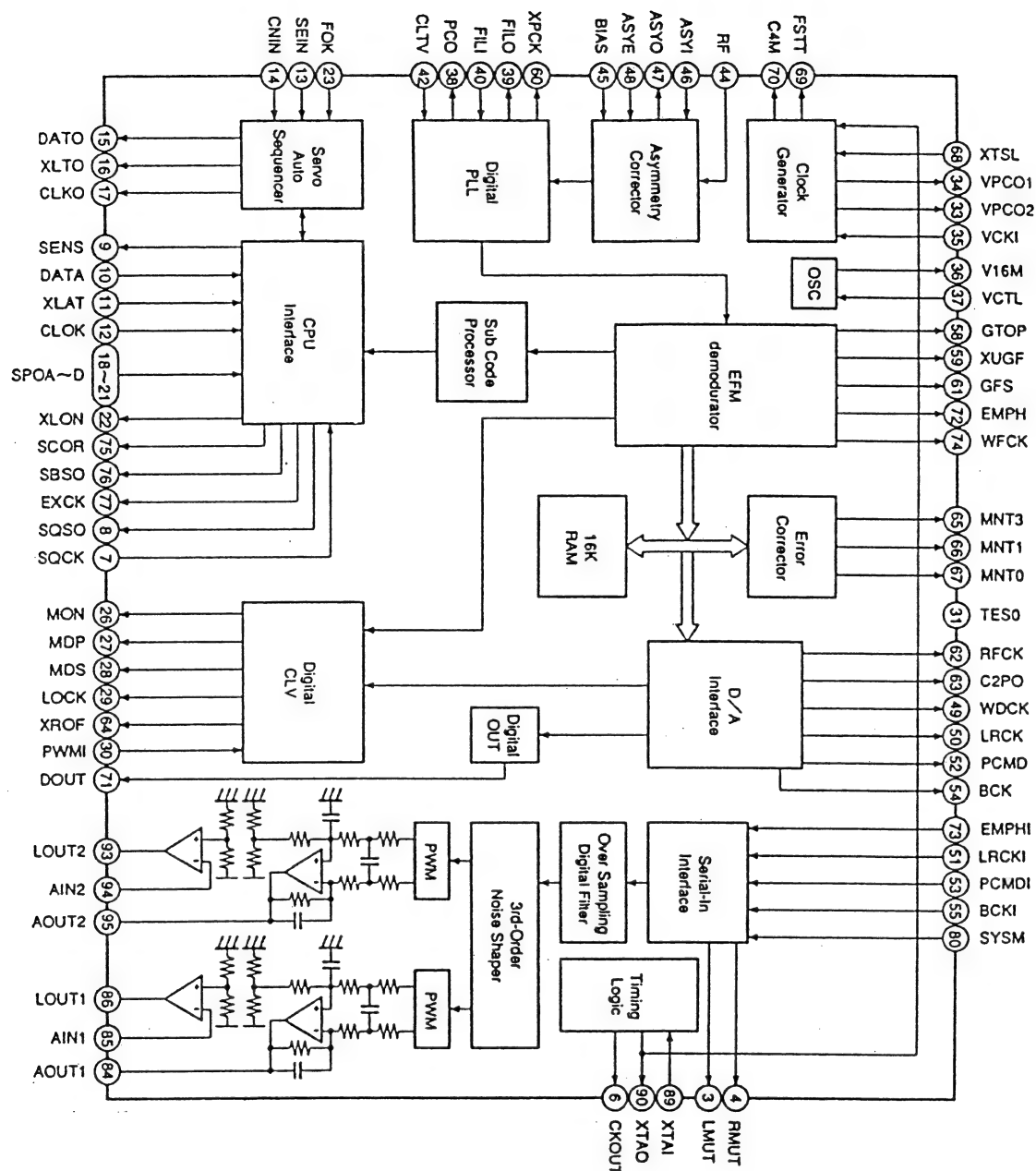
IC PIN FUNCTION

CXD2529Q (Digital Signal Processor)

NO.	SYMBOL	I/O		DESCRIPTION
1	VDD	-	-	Power supply(+5V).
2	VSS	-	-	GND.
3	LMUT	O	1,0	Left-channel zero detection flag.
4	RMUT	O	1,0	Right-channel zero detection flag.
5	TES2	O	1,0	TEST output pin; normally open.
6	CKOUT	O	1,0	Master clock frequency-divider output. Selects and outputs XTAL $\times 1$, $\times 1/2$, $\times 1/4$ or low only.
7	SQCK	I		SQSO readout clock input.
8	SQSO	O	1,0	Sub Q 80-bit serial output.
9	SENS	O	1,0	SENS output to CPU.
10	DATA	I		Serial data input from CPU.
11	XLAT	I		Latch input from CPU. Serial data is latched at the falling edge.
12	CLOK	I		Serial data transfer clock input from CPU.
13	SEIN	I		SENS input from SSP.
14	CNIN	I		Track jump count signal input.
15	DATO	O	1,0	Serial data output to SSP.
16	XLTO	O	1,0	Serial data latch output to SSP. Latched at the falling edge.
17	CKO	O	1,0	Serial data transfer clock output to SSP.
18	SPOA	I		Microcomputer extended interface (input A).
19	SPOB	I		Microcomputer extended interface (input B).
20	SPOC	I		Microcomputer extended interface (input C).
21	SPOD	I		Microcomputer extended interface (input D).
22	XLON	O	1,0	Microcomputer extended interface (output).
23	FOK	I		Focus OK input. Used for SENS output and the servo auto sequencer.
24	VDD	-	-	Power supply (+5V).
25	VSS	-	-	GND.
26	MON	O	1,0	Spindle motor on/off control output.
27	MDP	O	1,Z,0	Spindle motor servo control.
28	MDS	O	1,Z,0	Spindle motor servo control.
29	LOCK	O	1,0	GFS is sampled at 460Hz; when GFS is high, this pin outputs a high signal. If GFS is low eight consecutive samples, this pin outputs low.
30	PWMI	I		Spindle motor external control input.
31	TES0	I		TEST pin; normally GND.
32	TES1	I		TEST pin; normally GND.
33	VPCO2	O	1,Z,0	Wide-band EFM PLL charge pump output. Turned on/off by FCSW of address E.
34	VPCO1	O	1,Z,0	Charge pump output for the wide-band EFM PLL.
35	VCKI	I		VCO2 oscillation input for the wide-band EFM PLL.
36	V16M	O	1,0	VCO2 oscillation output for the wide-band EFM PLL.
37	VCTL	I		VCO2 control voltage input for the wide-band EFM PLL.
38	PCO	O	1,Z,0	Master PLL charge pump output.
39	FILO	I	Analog	Master PLL (slave=digital PLL) filter output.
40	FILI	I		Master PLL filter input.
41	AVSS	-	-	Analog GND.
42	CLTV	I		Master VCO control voltage input.
43	AVDD	-	-	Analog power supply (+5V).
44	RF	I		EFM signal input.
45	BIAS	I		Constant current input of the asymmetry circuit.
46	ASYI	I		Asymmetry comparator voltage input.
47	ASYO	O	1,0	EFM full-swing output (low=VSS, high=VDD)
48	ASYE	I		Low: asymmetry circuit off; high: asymmetry circuit on.
49	WDCK	O	1,0	D/A interface. Word clock = 2fs.
50	LRCK	O	1,0	D/A interface. LR clock output f = fs.
51	LRCKI	I		LR clock input.

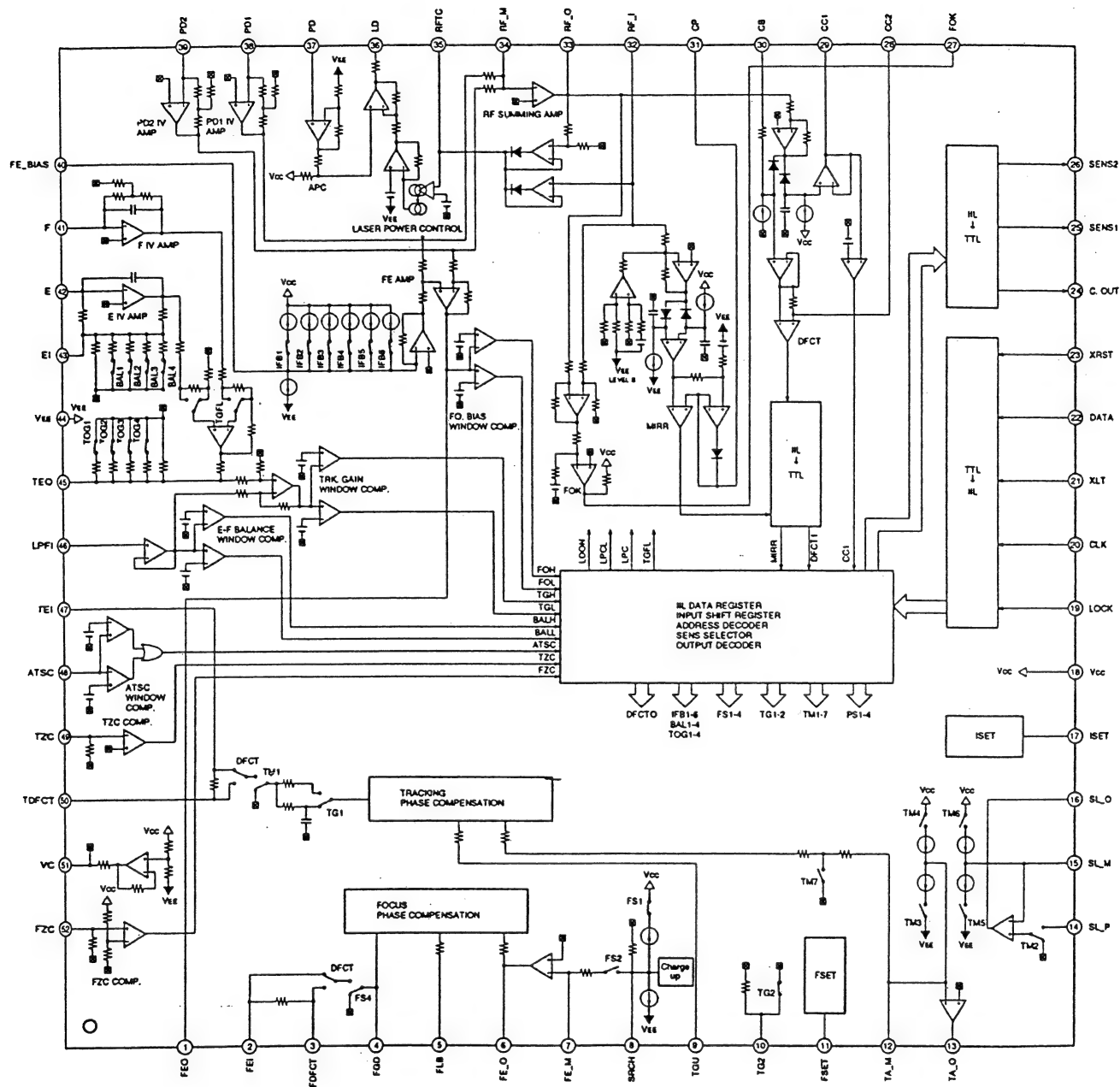
NO.	SYMBOL	I/O		DESCRIPTION
52	PCMD	O	1,0	D/A interface. Serial data output (two's complement, MSB first)
53	PCMDI	I		D/A interface. Serial data input (two's complement, MSB first)
54	BCK	O	1,0	D/A interface. Bit clock output.
55	BCKI	I		D/A interface. Bit clock input.
56	Vss	-	-	GND.
57	VDD	-	-	Power supply(+5V).
58	GTOP	O	1,0	GTOP output.
59	XUGF	O	1,0	XUGF output.
60	XPCK	O	1,0	XPLCK output.
61	GFS	O	1,0	GFS output.
62	RFCK	O	1,0	RFCK output.
63	C2PO	O	1,0	C2PO output.
64	XROF	O	1,0	XRAOF output.
65	MNT3	O	1,0	MNT3 output.
66	MNT1	O	1,0	MNT1 output.
67	MNT0	O	1,0	MNT0 output.
68	XTSL	I		Crystal selector input. Low: 16.9344MHz; high: 33.8688MHz.
69	FSTT	O	1,0	2/3 frequency-divider output for pins 89 and 90.
70	C4M	O	1,0	4.2336MHz output. 1/4 frequency-divided VCKI output in CAV-W mode.
71	DOUT	O	1,0	Digital Out output.
72	EMPH	O	1,0	Outputs a high signal when the playback disc has emphasis, and a low signal when there is no emphasis.
73	EMPHI	I		Inputs a high signal when de-emphasis is on, and a low signal when de-emphasis is off.
74	WFCK	O	1,0	WFCK output.
75	SCOR	O	1,0	Outputs a high signal when either subcode sync S0 or S1 is detected.
76	SBSO	O	1,0	Sub P to W serial output.
77	EXCK	I		SBSO readout clock input.
78	Vss	-	-	GND.
79	VDD	-	-	Power supply (+5V).
80	SYSM	I		Mute input. Active when high.
81	NC			
82	AVss	-	-	Analog GND.
83	AVDD	-	-	Analog power supply(+5V).
84	AOUT1	O		Left-channel analog output.
85	AIN1	I		Left-channel operational amplifier input.
86	LOUT1	O		Left-channel LINE output.
87	AVss	-	-	Analog GND.
88	XVDD			Power supply for master clock.
89	XTAI	I		Crystal oscillation circuit input. Input the external master clock via this pin.
90	XTAO	O		Crystal oscillation circuit output.
91	XVss			GND for master clock.
92	AVss	-	-	Analog GND.
93	LOUT2	O		Right-channel LINE output.
94	AIN2	I		Right-channel operational amplifier input.
95	AOUT2	O		Right-channel analog output.
96	AVDD	-	-	Analog power supply(+5V).
97	AVss	-	-	Analog GND.
98	NC			
99	NC			
100	XRST	I		System reset. Reset when low.

- Notes)**
- PCMD is an MSB first, two's complement output.
 - GTOP is used to monitor the frame sync protection status. (High: sync protection window released)
 - XUGF is the negative pulse for the frame sync derived from the EFM signal. It is the signal before sync protection.
 - XPLCK is the inverse of the EFM PLL clock. The PLL is designed so that the falling edge of XPLCK and the EFM signal transition point coincide.
 - GFS goes high when the frame sync and the insertion protection timing match.
 - RFCK is derived with the crystal accuracy. This signal has a cycle of 136 μ s (during normal-speed).
 - C2PO represents the data error status.
 - XRAOF is generated when the 16K RAM exceeds the $\pm 4F$ jitter margin.



CXA1992BR (RF AMP+Servo signal processor)

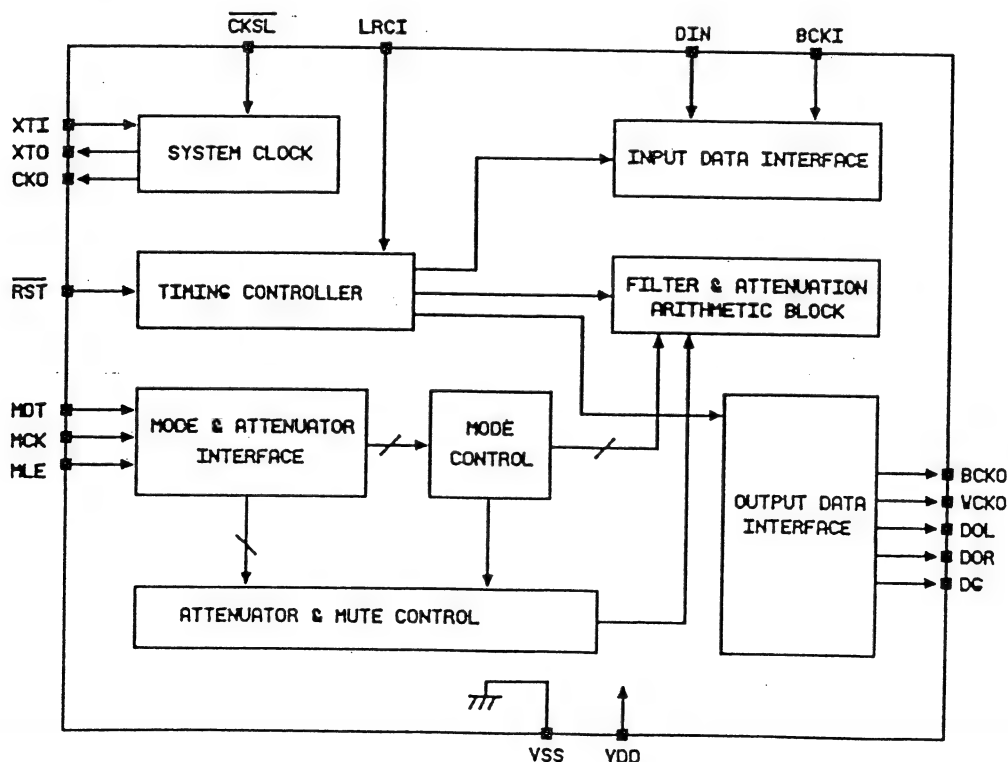
NO.	SYMBOL	I/O	DESCRIPTION
1	FEO	O	Focus error amplifier output. Connected internally to the window comparator input for bias adjustment.
2	FEI	I	Focus error input.
3	FDFCT	I	Capacitor connection pin for defect time constant.
4	FGD	I	Ground this pin through a capacitor for cutting the focus servo high-frequency gain.
5	FLB	I	External time constant setting pin for boosting the focus servo low-frequency.
6	FE-O	O	Focus drive output.
13	TA-O	O	Tracking drive output.
16	SL-O	O	Sled drive output.
7	FE-M	I	Focus amplifier inverted input.
8	SRCH	I	External time constant setting pin for generating focus search waveform.
9	TGU	I	External time constant setting pin for switching tracking high-frequency gain.
10	TG2	I	External time constant setting pin for switching tracking high-frequency gain.
11	FSET	I	Peak frequency setting pin for focus and tracking phase compensation amplifier.
12	TA-M	I	Tracking amplifier inverted input.
14	SL-P	I	Sled amplifier non-inverted input.
15	SL-M	I	Sled amplifier inverted input.
17	ISET	I	Connect an external capacitance to set the current which determines the Focus search, Track jump, and Sled kick heights.
18	Vcc	I	Positive power supply.
19	LOCK	I	The sled overrun prevention circuit operates when this pin is low.(no pull-up resistance)
20	CLK	I	Serial data transfer clock input from CPU. (no-pull-up resistance)
21	DATA	I	Serial data input from CPU.(no pull-up resistance)
22	XLT	I	Latch input from CPU.(no pull-up resistance)
23	XRST	I	Reset input; resets at Low.(no pull-up resistance)
24	C. OUT	O	Track number count signal output.
25	SENS1	O	Outputs FZC, DFCT1, TZC, BALH, TGH, FOH, ATSC, and others according to the command from CPU.
26	SENS2	O	Outputs DFCT2,MIRR,BALL,TGL,FOL, and others according to the command from the CPU.
27	FOK	O	Focus OK comparator output.
28	CC2	I	Input for the defect bottom hold output with capacitance coupled.
29	CC1	O	Defecct bottom hold output. Connected internally to the interruption comparator input.
30	CB	I	Connection pin for defect bottom hold capacitor.
31	CP	I	Connection pin for MIRR hold capacitor. MIRR comparator non-inverted input.
32	RF-I	I	Input for the RF summing amplifier output with capacitance coupled.
33	RF-O	O	RF summing amplifier output. Eyepattern check point.
34	RF-M	I	RF summing amplifier inverted input. The RF amplifier gain is determined by the resistance connected between this pin and RFO pin.
35	RFTC	I	External time constant setting pin durring RF level control.
36	LD	O	APC amplifier output.
37	PD	I	APC amplifier input.
38	PD1	I	REI-V amplifier inverted input.
39	PD2	I	Connect these pins to the photo diode A+C and B+D pins.
40	FE-BIAS	I	Bias adjustment of focus error amplifier. Leave this pin open for automatic adjustment.
41	F	I	FI-V and EI-V amplifier inverted input.
42	E	I	Connect these pins to photo diode F and E.
43	EI	-	I-V amplifier E gain adjustment. (When not using automatic balance adjustment)
44	VEE	-	Negative power supply.
45	TEO	O	Tracking error amplifier output. E-F signal is output.
46	LPFI	I	Comparator input for balance adjustment. (input from TEO through LPF)
47	TEI	I	Tracking error input.
48	TDFCT	I	Capacitor connection pin for defect time constant.
49	ATSC	I	Window comparator input for ATSC detection.
50	TZC	I	Tracking zero-cross comparator input.
51	VC	O	(VCC+VEE)/2 direct voltage output.
52	FZC	I	Focus zero-cross comparator input.



SM5841AP (Digital filter)

NO.	SYMBOL	I/O	DESCRIPTION
1	CKLS	IP	Oscillator and input frequency select. 384fs when HIGH, and 256fs when LOW.
2	XTI	I	Oscillator input connection.
3	XTO	O	Oscillator output connection.
4	CKO	O	Oscillator output clock (same frequency as XTI).
5	VSS	—	Ground
6	MDT	IP	Digital attenuator and mode set data .
7	MCK	IP	Digital attenuator and mode set clock.
8	MLE	IP	Digital attenuator and mode set latch enable.
9	RST	IP	System Reset.
10	DG	O	8fs left/right simultaneous of 4fs left/right alternating de-glitched output.
11	DOR	O	Right-channel data output when in 8fs L/R simultaneous mode, and L/R clock output in 4fs L/R alternating mode.
12	DOL	O	Left-channel data output when in 8fs L/R simultaneous mode, and Left/Right channel data output in L/R alternating mode.
13	WCKO	O	Output word clock.
14	VDD	—	5V supply.
15	BCKO	O	Output bit clock.
16	LRCI	IP	Input data sample rate (fs) clock.
17	BCKI	IP	Input bit clock.
18	DIN	IP	Data input.

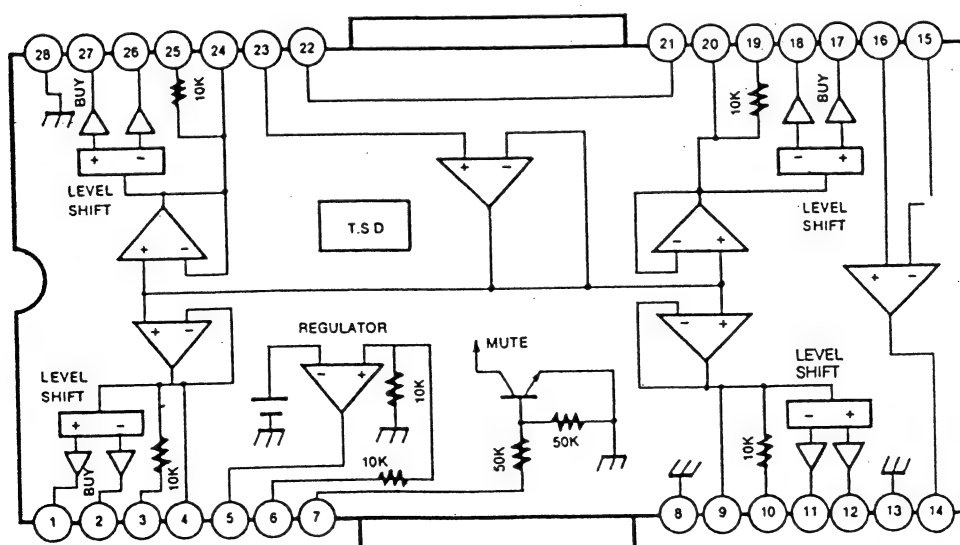
BLOCK DIAGRAM



KA9258D (Motor Driver)

NO.	SYMBOL	I/O	DESCRIPTION
1	DO1.1	O	DRIVE OUTPUT
2	DO1.2	O	DRIVE OUTPUT
3	DI1.1	I	DRIVE INPUT
4	DI1.2	I	DRIVE INPUT
5	REG	-	REGULATOR
6	REO	O	REGULATOR OUTPUT
7	MUTE	-	MUTE
8	GND1	-	GROUND
9	DI2.1	I	DRIVE INPUT
10	DI2.2	I	DRIVE INPUT
11	DO2.1	O	DRIVE OUTPUT
12	DO2.2	O	DRIVE OUTPUT
13	GND2	-	GROUND
14	OPOUT	O	OPAMP OUTPUT
15	OPIN (-)	I	OPAMP INPUT(-)
16	OPIN (+)	I	OPAMP INPUT(+)
17	DO3.1	O	DRIVE OUTPUT
18	DO3.2	O	DRIVE OUTPUT
19	DI3.1	I	DRIVE INPUT
20	DI3.2	I	DRIVE INPUT
21	VCC1	-	SUPPLY VOLTAGE
22	VCC2	-	SUPPLY VOLTAGE
23	VREF	-	2.5V BIAS VOLTAGE
24	DI4.1	I	DRIVE INPUT
25	DI4.2	I	DRIVE INPUT
26	DO4.1	O	DRIVE OUTPUT
27	DO4.2	O	DRIVE OUTPUT
28	GND3	-	GROUND

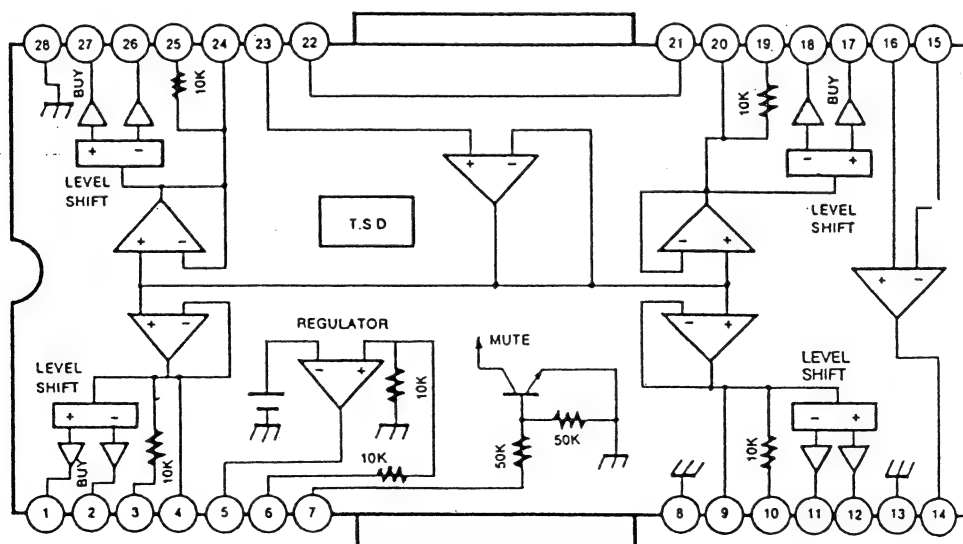
BLOCK DIAGRAM



KA9258D (Motor Driver)

NO.	SYMBOL	I/O	DESCRIPTION
1	DO1.1	O	DRIVE OUTPUT
2	DO1.2	O	DRIVE OUTPUT
3	DI1.1	I	DRIVE INPUT
4	DI1.2	I	DRIVE INPUT
5	REG	-	REGULATOR
6	REO	O	REGULATOR OUTPUT
7	MUTE	-	MUTE
8	GND1	-	GROUND
9	DI2.1	I	DRIVE INPUT
10	DI2.2	I	DRIVE INPUT
11	DO2.1	O	DRIVE OUTPUT
12	DO2.2	O	DRIVE OUTPUT
13	GND2	-	GROUND
14	OPOUT	O	OPAMP OUTPUT
15	OPIN (-)	I	OPAMP INPUT(-)
16	OPIN (+)	I	OPAMP INPUT(+)
17	DO3.1	O	DRIVE OUTPUT
18	DO3.2	O	DRIVE OUTPUT
19	DI3.1	I	DRIVE INPUT
20	DI3.2	I	DRIVE INPUT
21	VCC1	-	SUPPLY VOLTAGE
22	VCC2	-	SUPPLY VOLTAGE
23	VREF	-	2.5V BIAS VOLTAGE
24	DI4.1	I	DRIVE INPUT
25	DI4.2	I	DRIVE INPUT
26	DO4.1	O	DRIVE OUTPUT
27	DO4.2	O	DRIVE OUTPUT
28	GND3	-	GROUND

BLOCK DIAGRAM



IC70 BVIANAM1232C (μ -COM, TMP87PM78F)

NO.	SYMBOL	I/O	DESCRIPTION
1	VDD	-	+5V POWER SUPPLY PIN
2	F_MOTOR	O	MESHANISM OPEN CONTROL OUTPUT PIN
3	R_MOTOR	O	MESHANISM CLOSE CONTROL OUTPUT PIN
4	/MLE	O	DIGITAL ATTENUATOR AND MODE SET LATCH ENABLE
5	MCK	O	DIGITAL ATTENUATOR AND MODE SET CLOCK
6	MDT	O	DIGITAL ATTENUATOR AND MODE SET DATA
7	REMO SEL	I	REMOTE SELECTOR SWITCH CHECK PIN
8	TEST	I	OPTION(HIGH=AKAI)
9	NC	-	
10	SQCK	O	SUBCODE-Q DATA CLOCK OUTPUT PIN
11	SQSO	I	SUBCODE-Q DATA SERIAL INPUT PIN
12	NC	-	
13	SCOR	I	SUBCODE SYNC SIGNAL (S0+S1) INPUT PIN
14	OP/SW	I	OPEN SWITCH CHECK INPUT PIN
15	CL/SW	I	CLOSE SWITCH CHECK INPUT PIN
16	JOG B	-	SKIP DIAL CONTROL PIN
17	JOG A	-	SKIP DIAL CONTROL PIN
18~21	NC,	-	
22	GND	-	GROUND
23	AGND	-	GROUND
24	VREF	-	+5V POWER SUPPLY PIN
25	VDD	-	+5V POWER SUPPLY PIN
26	NC	-	
27	GND	-	GROUND
28, 29	NC	-	
30	GND	-	GROUND
31	XIN	I	SYSTEM CLOCK OSCILLATION CRYSTAL INTERFACE INPUT PIN
32	XOUT	O	SYSTEM CLOCK OSCILLATION CRYSTAL INTERFACE OUTPUT PIN
33	RESET	I	SYSTEM RESET PIN
34	RE_IN	I	REMOCON DATA INPUT PIN
35	BUS_IN	I	REMOCON DATA INPUT PIN
36	BUS_OUT	O	REMOCON DATA OUTPUT PIN
37	SENS2	I	SSP STATUS INPUT PIN
38	SENS	I	DSP STATUS INPUT PIN
39	COUT	I	TRACK COUNT INPUT PIN
40	MUTE	O	AUDIO MUTE OUTPUT PIN
41	CLOCK	O	CLOCK OUTPUT PIN
42	XLAT	O	LATCH OUTPUT PIN
43	DATA	O	DATA OUTPUT PIN
44	F.OK	I	FOCUS OK INPUT PIN
45	GFS	I	FRAME SYNC STAUS INPUT PIN
46	DSP RESET	O	SYSTEM RESET FROM DSP OUTPUT PIN
47	POWER	O	SYSTM POWER ON/OFF OUTPUT PIN
48	FLT POWER	O	FIP FILAMENT POWER ON, OFF OUTPUT PIN

NO.	SYMBOL	I/O	DESCRIPTION
49	NC	-	
50	-30V	-	FIP VOLTAGE SUPPLY PIN
51	LED	O	STANBY LED ON/OFF OUTPUT PIN
52	LED	O	TIME EDIT LED ON/OFF OUTPUT PIN
53	LED	O	JUST EDIT LED ON/OFF OUTPUT PIN
54	LED	O	MANUAL FADE LED ON/OFF OUTPUT PIN
55	LED	O	AUTO SPACE LED ON/OFF OUTPUT PIN
56~58	NC	-	
59	KS_1	O	KEY SCAN OUTPUT PIN
60	KS_2	O	KEY SCAN OUTPUT PIN
61	KS_3	O	KEY SCAN OUTPUT PIN
62	KS_4	O	KEY SCAN OUTPUT PIN
63	KS_5	O	KEY SCAN OUTPUT PIN
64	KS_6	O	KEY SCAN OUTPUT PIN (NOT USED)
65	KS_7	O	KEY SCAN OUTPUT PIN (NOT USED)
66	KS_8	O	KEY SCAN OUTPUT PIN (NOT USED)
67	P1	O	FIP SEGEMENT SIGNAL OUTPUT PIN
68	P2	O	FIP SEGEMENT SIGNAL OUTPUT PIN
69	P3	O	FIP SEGEMENT SIGNAL OUTPUT PIN
70	P4	O	FIP SEGEMENT SIGNAL OUTPUT PIN
71	P5	O	FIP SEGEMENT SIGNAL OUTPUT PIN
72	P6	O	FIP SEGEMENT SIGNAL OUTPUT PIN
73	P7	O	FIP SEGEMENT SIGNAL OUTPUT PIN
74	P8	O	FIP SEGEMENT SIGNAL OUTPUT PIN
75	P9	O	FIP SEGEMENT SIGNAL OUTPUT PIN
76	P10	O	FIP SEGEMENT SIGNAL OUTPUT PIN
77	P11	O	FIP SEGEMENT SIGNAL OUTPUT PIN
78	P12	O	FIP SEGEMENT SIGNAL OUTPUT PIN
79	P13	O	FIP SEGEMENT SIGNAL OUTPUT PIN
80	P14	O	FIP SEGEMENT SIGNAL OUTPUT PIN
81	P15	O	FIP SEGEMENT SIGNAL OUTPUT PIN
82	P16	O	FIP SEGEMENT SIGNAL OUTPUT PIN
83	1G	O	FIP TIMING SIGNAL OUTPUT PIN
84	2G	O	FIP TIMING SIGNAL OUTPUT PIN
85	3G	O	FIP TIMING SIGNAL OUTPUT PIN
86	4G	O	FIP TIMING SIGNAL OUTPUT PIN
87	5G	O	FIP TIMING SIGNAL OUTPUT PIN
88	6G	O	FIP TIMING SIGNAL OUTPUT PIN
89	7G	O	FIP TIMING SIGNAL OUTPUT PIN
90	8G	O	FIP TIMING SIGNAL OUTPUT PIN
91~94	GND	I	GROUND
95	KI_4	I	KEY SCAN INPUT PIN
96	KI_3	I	KEY SCAN INPUT PIN
97	KI_2	I	KEY SCAN INPUT PIN
98	KI_1	I	KEY SCAN INPUT PIN
99	P17	O	FIP SEGMENT SIGNAL OUTPUT PIN
100	NC	-	

MEASUREMENT AND ADJUSTMENT METHODS

Measurement condition

- Dolby NR position: OFF
- Make sure heads are clean
- Make sure capstan and pressure roller are clean.

MEASURING INSTRUMENTS

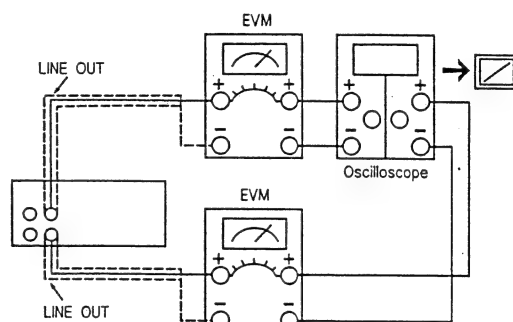
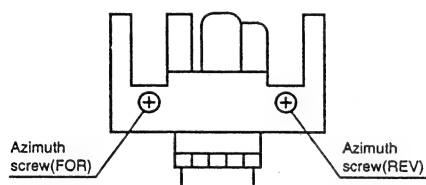
- EVM (Electronic Voltmeter)
- Oscilloscope
- Frequency counter
- AF Oscillator
- DC Voltmeter
- ATT (Attenuator)
- Resistor (600Ω)

Test tape

- Head azimuth (10KHz, -10dB): MTT-114N
- Tape speed(3KHz, -10dB): MTT-111N
- Playback frequency response MTT-257H (125KHz, 1KHz, 10KHz, -10dB)
- Playback gain: MTT-150
- Blank tape
 - Normal blank tape: MTT-5513
 - CrO₂ blank tape: MTT-5563
 - Metal blank tape: MTT-5572

HEAD AZIMUTH ADJUSTMENT

1. Test equipment connections are shown in fig. 1.
2. Playback the head Azimuth test tape and regulate the angle adjust screw so that the outputs of L-ch and R-ch are maximized. (When the adjusting positions are different with L-ch and R-ch, find a position where the outputs of L-ch and R-ch are balanced and then make the adjustment.)
3. At the same time, obtain a lissajous waveform and eliminate phase deflection.
4. After the adjustment, apply screw lock to the angle adjusting value.

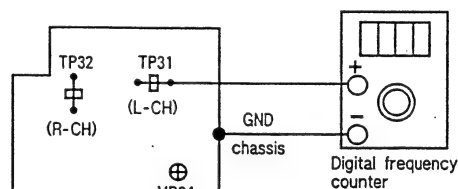


(FIG. 1)

TAPE SPEED ADJUSTMENT

1. Test equipment connections are shown in fig. 2.
2. Playback the middle part of the test tape.

Adjustment point	VR84
Standard Value	3,000Hz ± 30Hz

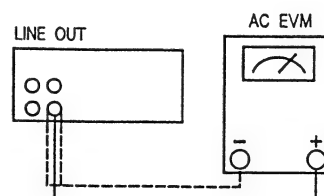


(FIG. 2)

PLAYBACK GAIN ADJUSTMENT

1. Test equipment connections are shown in fig. 3.
2. Playback the playback gain test tape. (MTT-150).
3. Adjust playback gain.

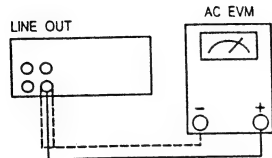
Adjustment Point	L ch : VR01	R ch : VR02
Standard Value	560mV	



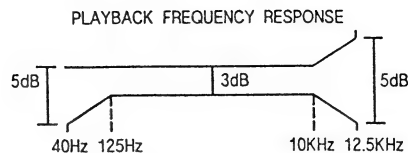
(FIG. 3)

PLAYBACK FREQUENCY RESPONSE

1. Test equipment connections are shown in fig. 4.
2. Playback the playback frequency response test tape.
3. Check that the frequency response is within the range shown in Fig. 5 for both L-ch and R-ch.



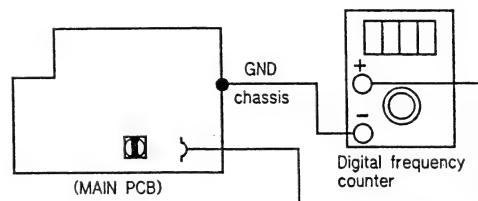
(FIG. 4)



(FIG. 5)

BIAS FREQUENCY ADJUSTMENT

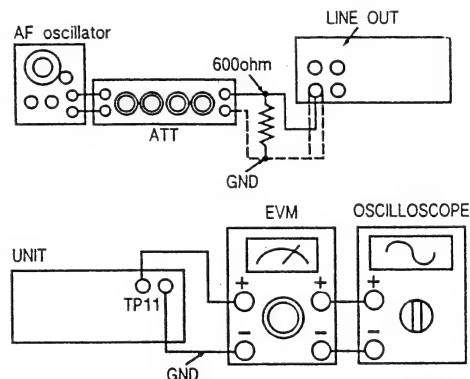
1. Test equipment connections are shown in fig. 6.
2. Load a CrO₂ blank test tape.
3. Press the record and pause button.
4. Adjust T501 for 105KHz frequency counter reading.



(FIG. 6)

OVERALL GAIN ADJUSTMENT

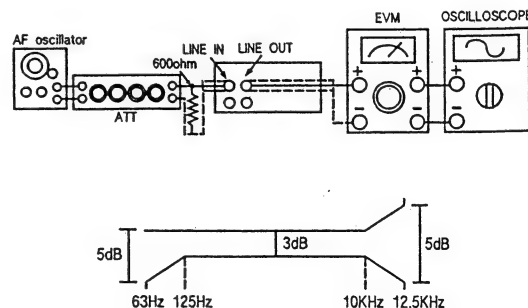
1. Test equipment connections are shown in fig. 7.
2. Insert the normal reference blank tape.
3. Place UNIT into recorder mode.
4. Supply a 1KHz signal through ATT (-10dB) from AF oscillator to line in.
5. Adjust ATT until monitor level at TP31 (L-ch) or TP32 (R-ch) becomes 180mV.
6. Playback recorded tape and make sure that the output level at TP31 (L-ch) or TP32 (R-ch) becomes 180mV.
7. If measured value is not 180mV, adjust it by using VR31 (L-CH) or VR32 (R-CH).
8. Repeat from step (2).



(FIG. 7)

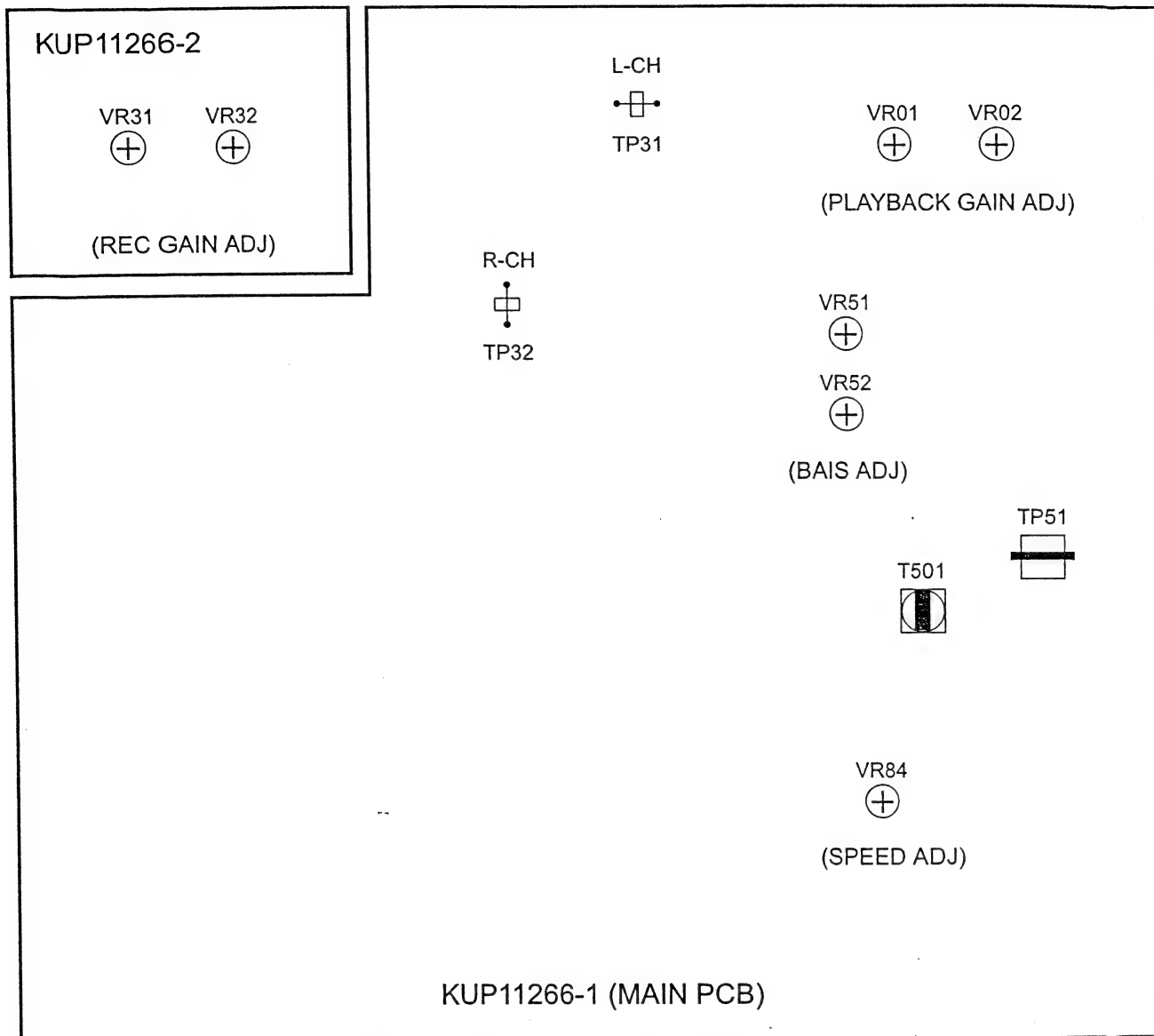
OVERALL FREQUENCY RESPONSE

1. Set a normal blank tape (MTT-5513) and record by apply signal (100Hz, 1KHz, 10KHz) through ATT-from AF oscillator to line in (Line out Level : 33mV).
2. Playback the signal recorded in step 1, and check that the level of each output frequency in within the range shown in fig. 8 in comparison with the reference frequency (1KHz).
3. If it is not within the standard range adjust the bias current by using VR51 (L-CH) or VR52 (R-CH) so that the frequency level is within the standard.
- Level up in high frequency range ... Increase the bias current.
- Level down in high frequency range ... Decrease the bias current.
4. After that. increase the signal recorded on CrO₂ blank tape (MTT-5563) and metal blank tape (MTT-5572) up to 12KHz and adjust in the same way as mentioned above and check that the frequency level is within the range shown in Fig. 8.



(FIG. 8)

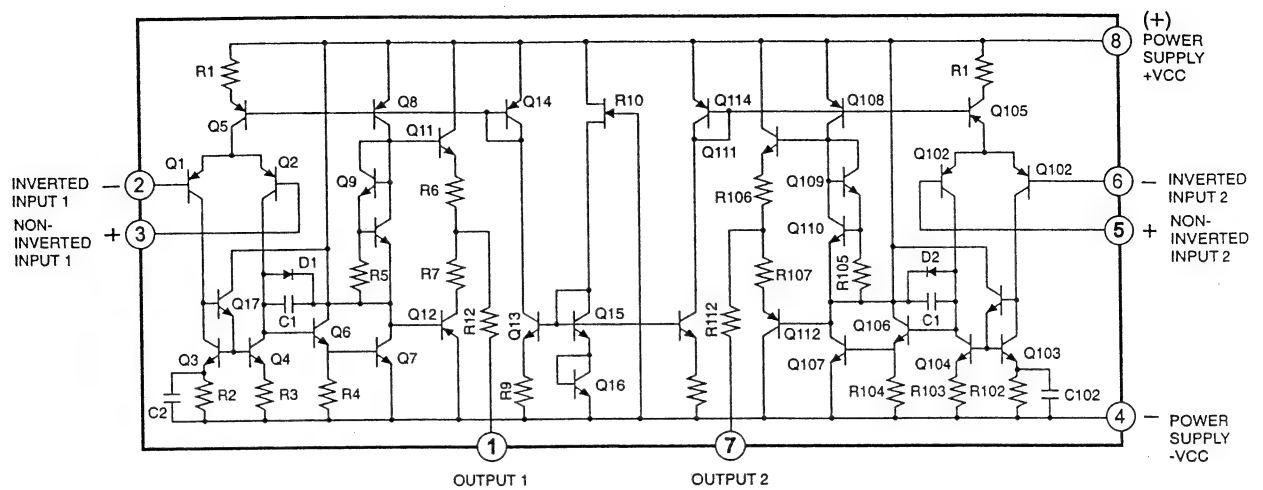
ADJUSTMENT POINT



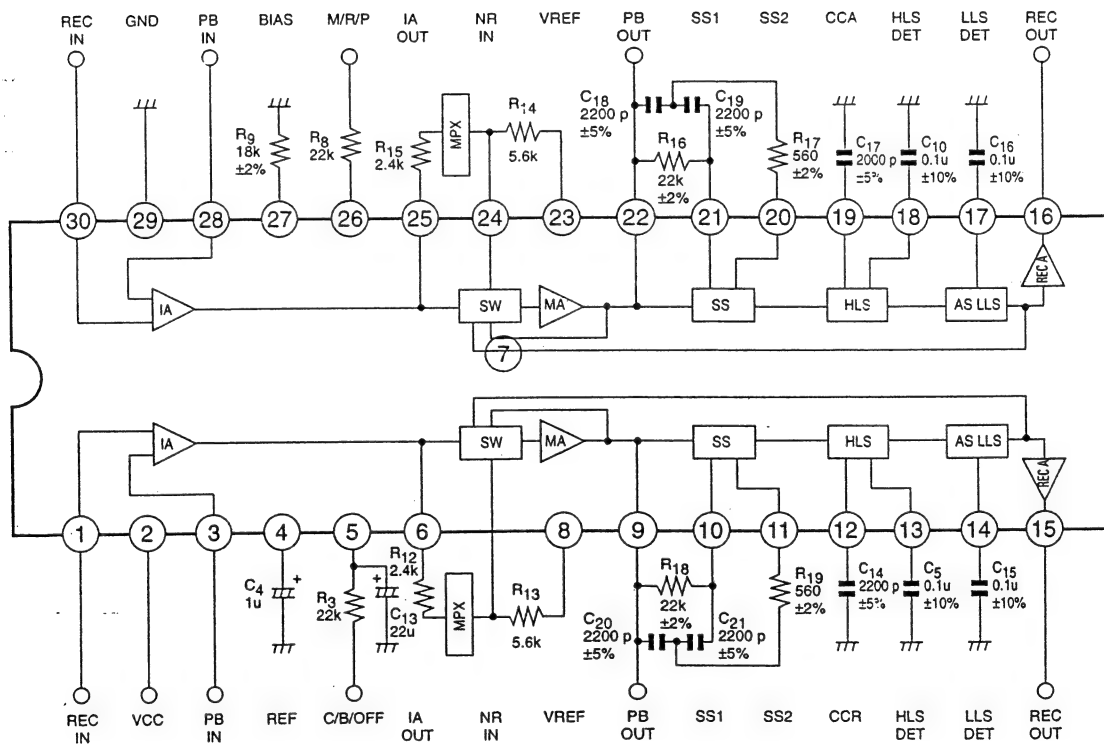
μ-COM IC (ANAM1265D)(UPD78042GF)

PIN No.	SYMBOL	DESCRIPTION
3~7	SEG~SEG1	FIP digit select output for indication.
8	V _{DD}	+5V Power supply terminal of this IC.
14~16	Key OUT	Key scan output.
17	RESET	System reset pulse input.
18~19	TIME	Timer control Mode.
20	GND	To be grounded.
21~24	Key IN	Key scan input.
25	GND	To be grounded.
27	Meter L-ch	A/D Converter input for level meter indication.
28	Meter-R-ch	A/D Converter input for level meter indication.
29	AV _{DD}	+5V Power supply terminal of this IC.
30	AV _{ref}	Reference voltage input terminal.
31	GND	To be grounded.
32	XT2	Open
33	GND	To be grounded.
34	X1	Crystal element connecting terminal.
35	X2	
36	Key Mute	Rec mute control Mode (H = ON)
37	REC	REC control Mode (L = ON)
38	LINE MUTE	Line mute control Mode (H = ON)
40	Dolby C	Dolby C control Mode (L = ON)
41	Dolby B	Dolby B control Mode (L = ON)
42	LINE / PB	LINE / PB control Mode
43	POWER	Power control Mode (H = ON)
44	GND	To be grounded.
45	T.P.S	T.P.S data input.
46	Hall	Hall IC data input.
47	Remocon IN	Remocon data input.
48	GND	To be grounded.
49	Remocon OUT	Remocon data output.
50	Close Motor	Close loadind Motor control (H = ON)
51	Open Motor	Open loading Motor control (H = ON)
52	V _{DD}	+5V power supply terminal of this IC.
53	Close SW	Loading close detector sw input (L = ON).
54	Open SW	Loading open detector sw input (L = ON).
55	Rec (R) SW	Rec (Reverse) SW detector input.
56	Mode SW	Mode sw detector input.
57	TAPE SW	TAPE sw detector input.
58	Motor	Motor control output (H = ON)
59	Solenoid	Solenoid control output (H = ON)
60	Rec (F) SW	Rec (forward) sw detector input.
61~70	SEG1~SEG10	FIP segment control output.
71	V Load	(-24V) Negative power supply input terminal for FIP blanking.
72~77	SEG11~SEG16	FIP segment control output.

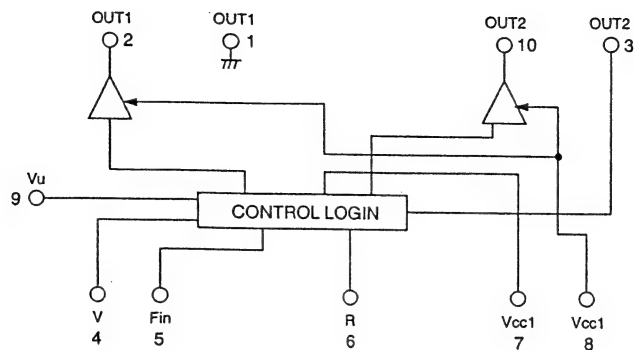
M5220P (DUAL LOW-Noise Operational Amplifiers) (DUAL POWER SUPPLY TYPE)



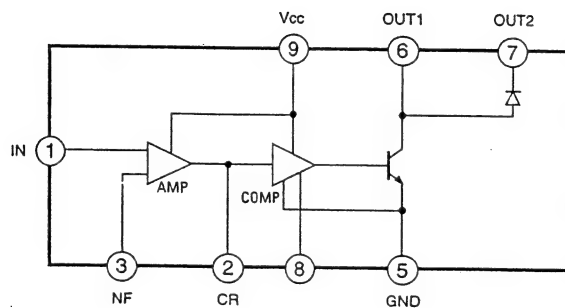
HA12142NT (DOLBY B. C Noise Reduction System)



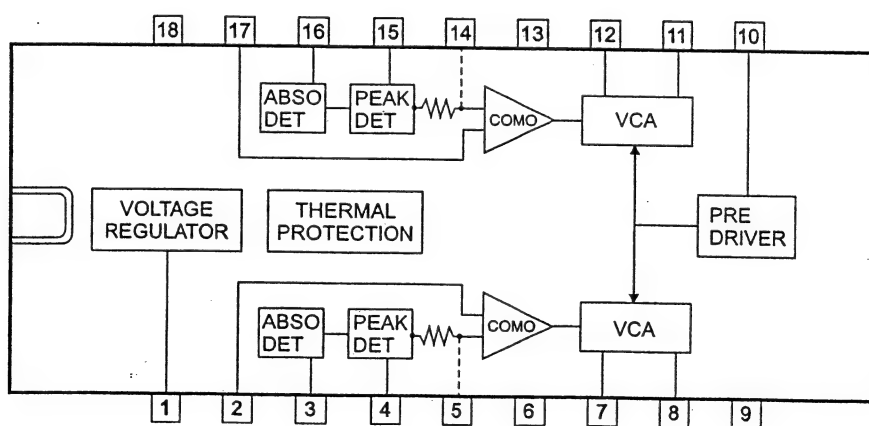
BA6209 (Reversible Motor Driver)



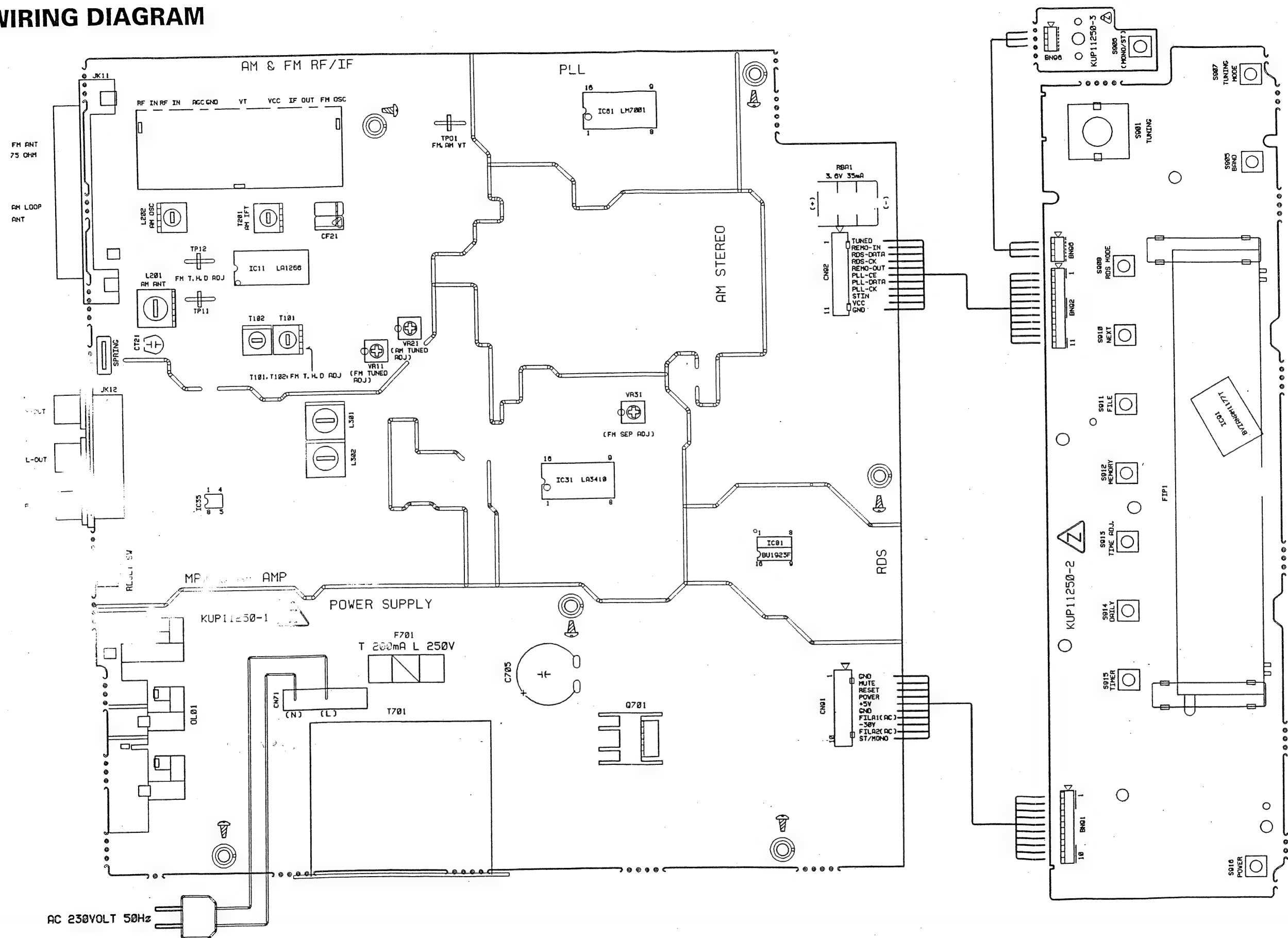
LA2000 (Audio Level Sensor)



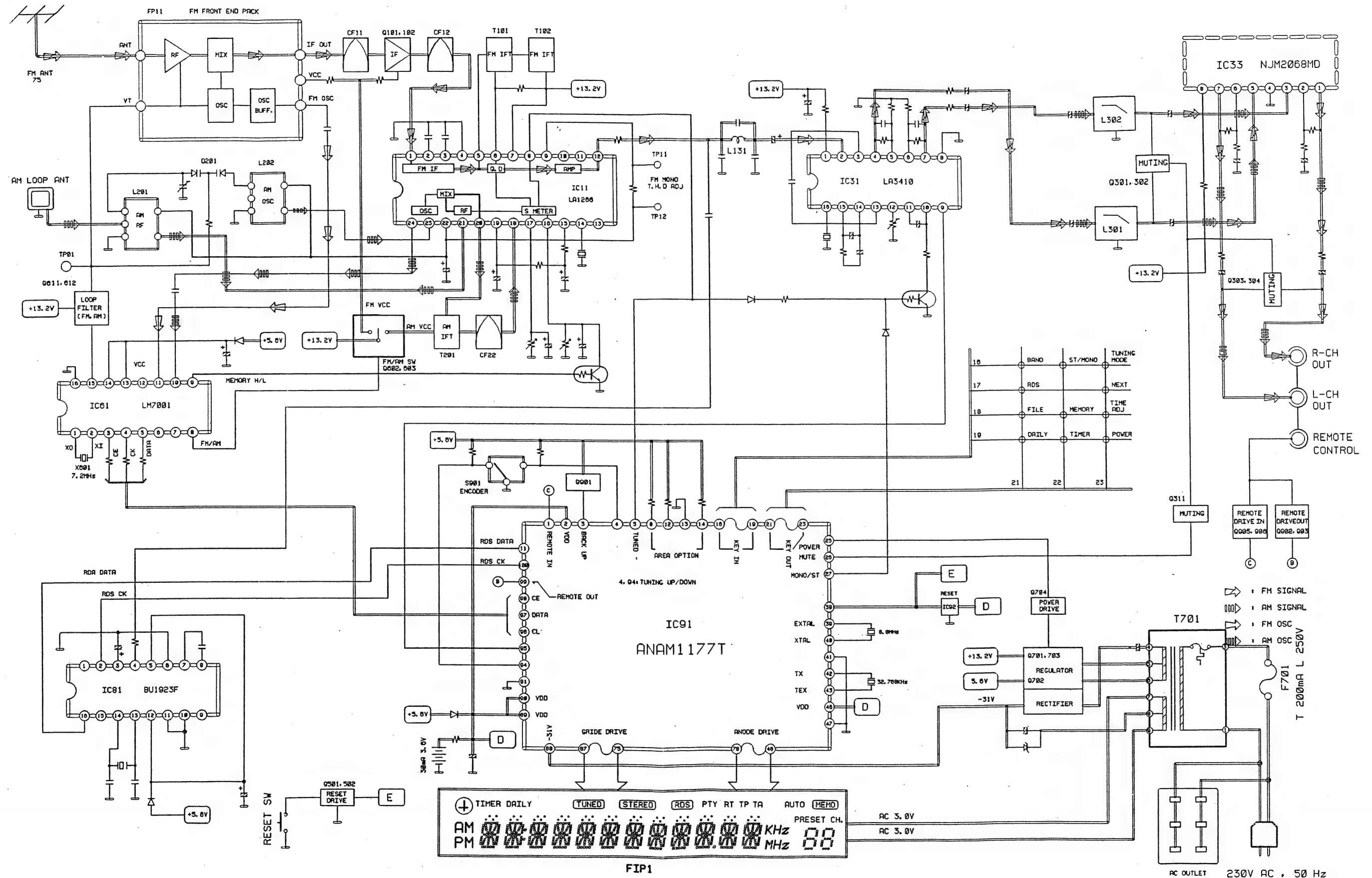
PC1297 (DOLBY HX PRO SYSTEM)



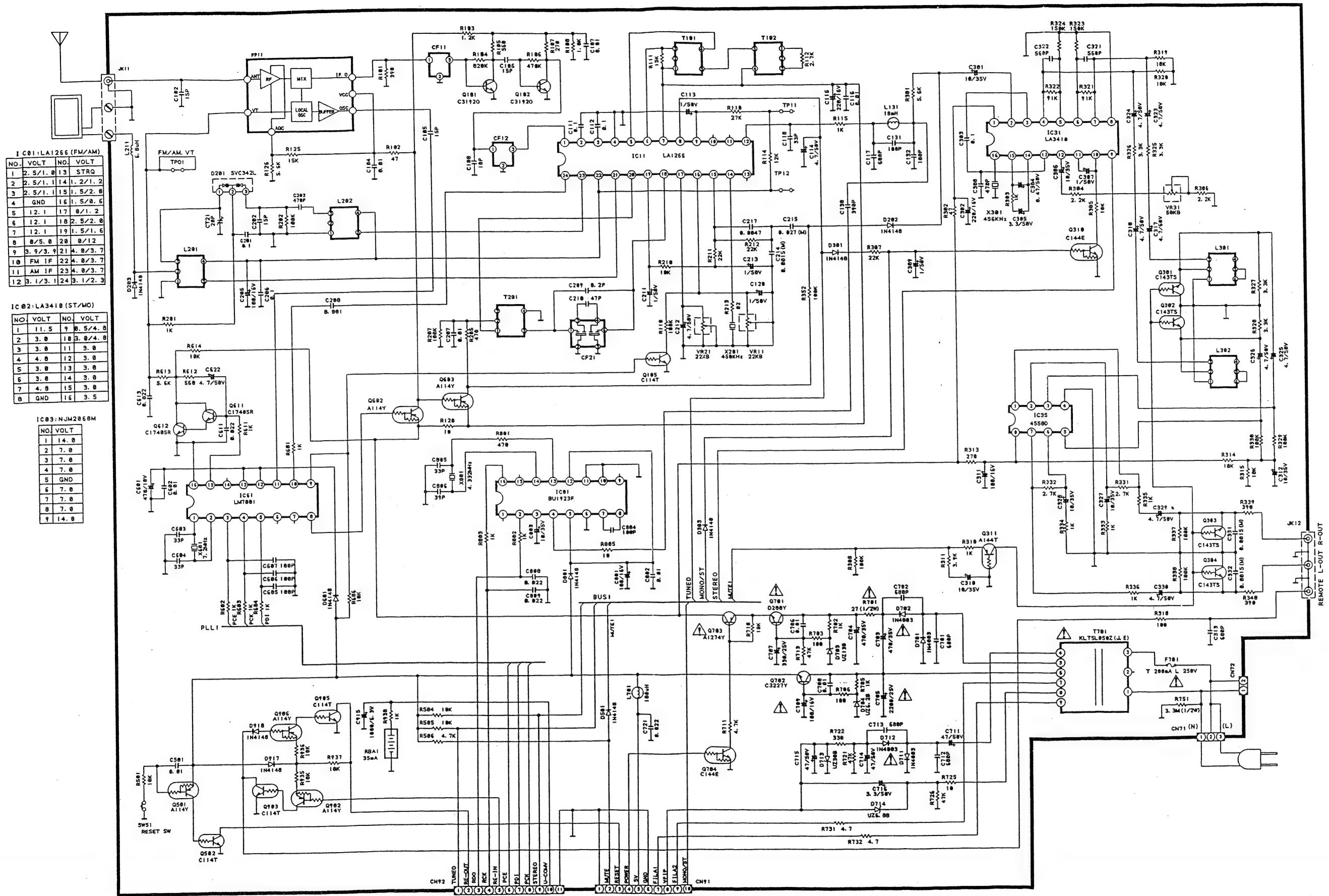
WIRING DIAGRAM



BLOCK DIAGRAM



SCHEMATIC DIAGRAM



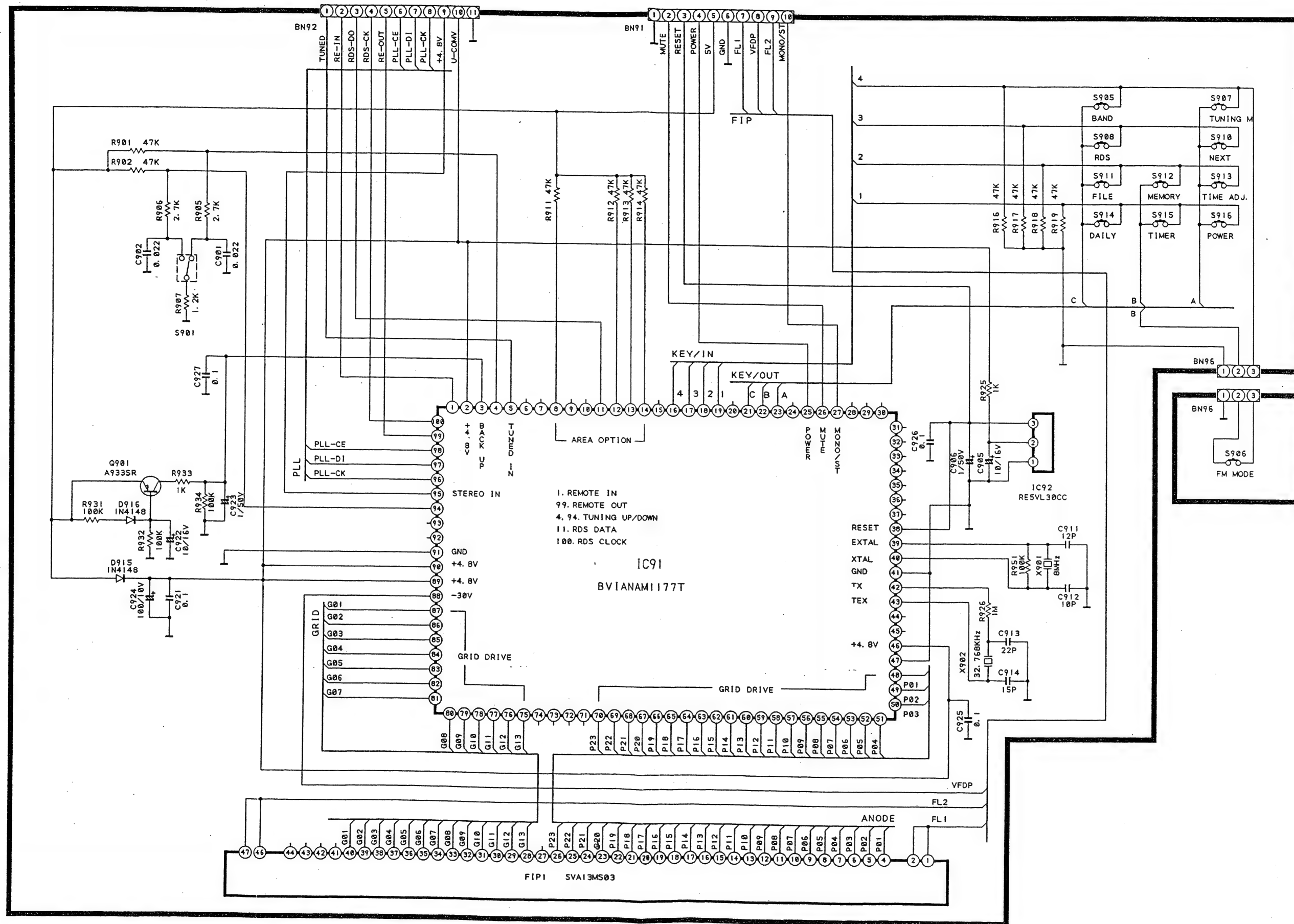
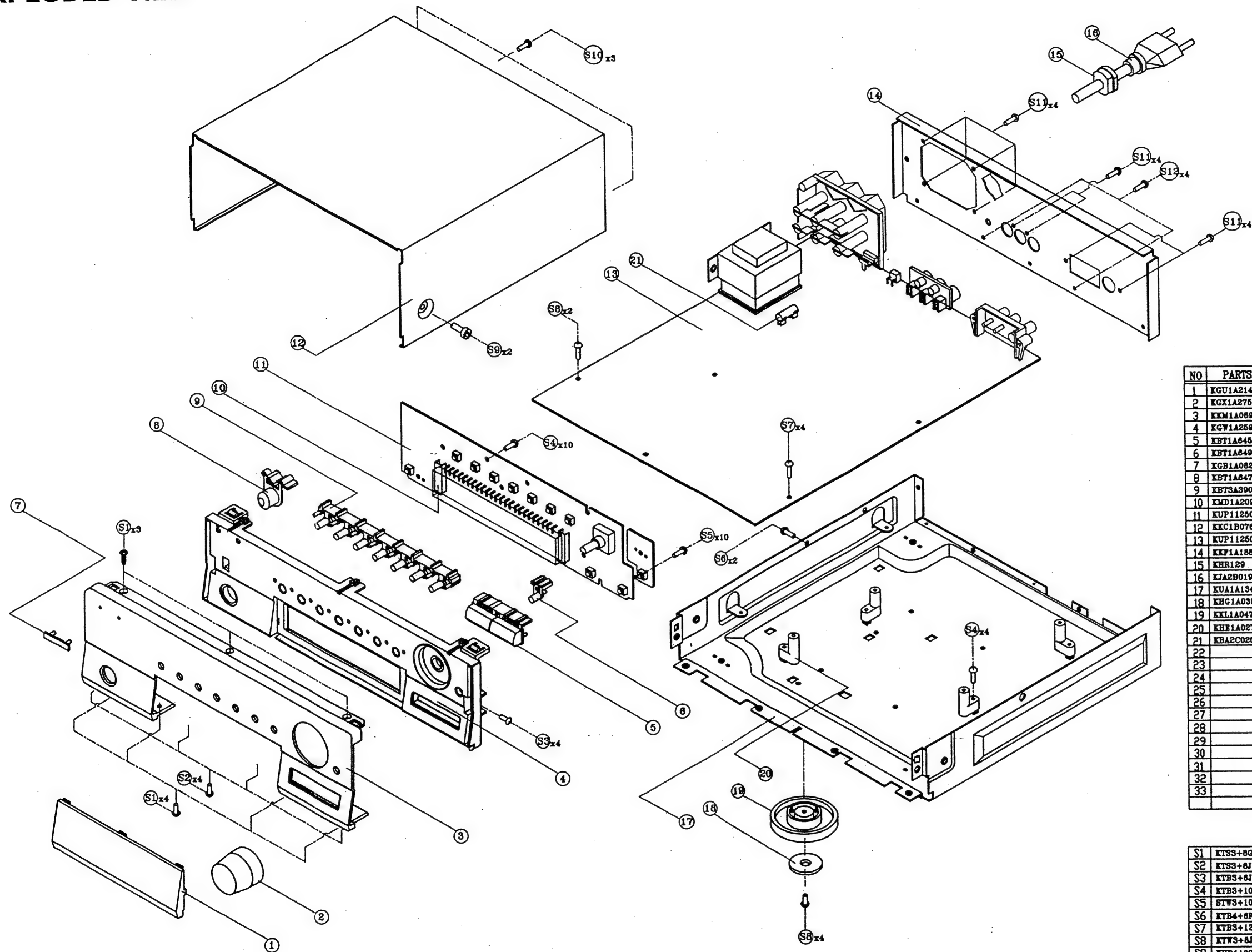


Table of Component Values:

IC	IC1	IC2	IC3	IC4	IC5	IC6	IC7	IC8	IC9	IC10	IC11	IC12	IC13	IC14	IC15	IC16	IC17	IC18	IC19	IC20	IC21	IC22	IC23	IC24	IC25	IC26	IC27	IC28	IC29	IC30	IC31	IC32	IC33	IC34	IC35	IC36	IC37	IC38	IC39	IC40	IC41	IC42	IC43	IC44	IC45	IC46	IC47	IC48	IC49	IC50	IC51	IC52	IC53	IC54	IC55	IC56	IC57	IC58	IC59	IC60	IC61	IC62	IC63	IC64	IC65	IC66	IC67	IC68	IC69	IC70	IC71	IC72	IC73	IC74	IC75	IC76	IC77	IC78	IC79	IC80	IC81	IC82	IC83	IC84	IC85	IC86	IC87	IC88	IC89	IC90	IC91	IC92	IC93	IC94	IC95	IC96	IC97	IC98	IC99	IC100	IC101	IC102	IC103	IC104	IC105	IC106	IC107	IC108	IC109	IC110	IC111	IC112	IC113	IC114	IC115	IC116	IC117	IC118	IC119	IC120	IC121	IC122	IC123	IC124	IC125	IC126	IC127	IC128	IC129	IC130	IC131	IC132	IC133	IC134	IC135	IC136	IC137	IC138	IC139	IC140	IC141	IC142	IC143	IC144	IC145	IC146	IC147	IC148	IC149	IC150	IC151	IC152	IC153	IC154	IC155	IC156	IC157	IC158	IC159	IC160	IC161	IC162	IC163	IC164	IC165	IC166	IC167	IC168	IC169	IC170	IC171	IC172	IC173	IC174	IC175	IC176	IC177	IC178	IC179	IC180	IC181	IC182	IC183	IC184	IC185	IC186	IC187	IC188	IC189	IC190	IC191	IC192	IC193	IC194	IC195	IC196	IC197	IC198	IC199	IC200	IC201	IC202	IC203	IC204	IC205	IC206	IC207	IC208	IC209	IC210	IC211	IC212	IC213	IC214	IC215	IC216	IC217	IC218	IC219	IC220	IC221	IC222	IC223	IC224	IC225	IC226	IC227	IC228	IC229	IC230	IC231	IC232	IC233	IC234	IC235	IC236	IC237	IC238	IC239	IC240	IC241	IC242	IC243	IC244	IC245	IC246	IC247	IC248	IC249	IC250	IC251	IC252	IC253	IC254	IC255	IC256	IC257	IC258	IC259	IC260	IC261	IC262	IC263	IC264	IC265	IC266	IC267	IC268	IC269	IC270	IC271	IC272	IC273	IC274	IC275	IC276	IC277	IC278	IC279	IC280	IC281	IC282	IC283	IC284	IC285	IC286	IC287	IC288	IC289	IC290	IC291	IC292	IC293	IC294	IC295	IC296	IC297	IC298	IC299	IC300	IC301	IC302	IC303	IC304	IC305	IC306	IC307	IC308	IC309	IC310	IC311	IC312	IC313	IC314	IC315	IC316	IC317	IC318	IC319	IC320	IC321	IC322	IC323	IC324	IC325	IC326	IC327	IC328	IC329	IC330	IC331	IC332	IC333	IC334	IC335	IC336	IC337	IC338	IC339	IC340	IC341	IC342	IC343	IC344	IC345	IC346	IC347	IC348	IC349	IC350	IC351	IC352	IC353	IC354	IC355	IC356	IC357	IC358	IC359	IC360	IC361	IC362	IC363	IC364	IC365	IC366	IC367	IC368	IC369	IC370	IC371	IC372	IC373	IC374	IC375	IC376	IC377	IC378	IC379	IC380	IC381	IC382	IC383	IC384	IC385	IC386	IC387	IC388	IC389	IC390	IC391	IC392	IC393	IC394	IC395	IC396	IC397	IC398	IC399	IC400	IC401	IC402	IC403	IC404	IC
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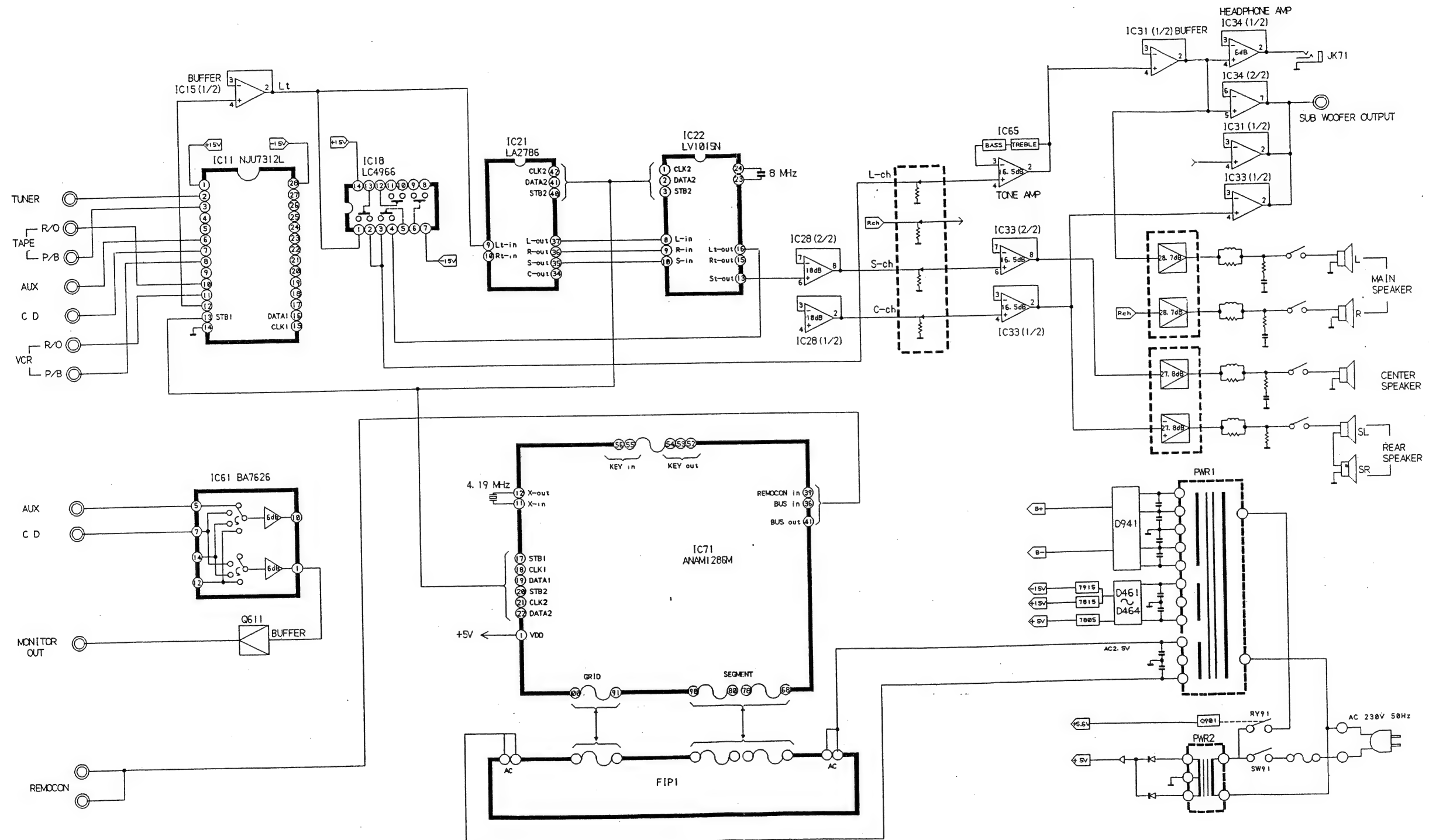
EXPLODED VIEW



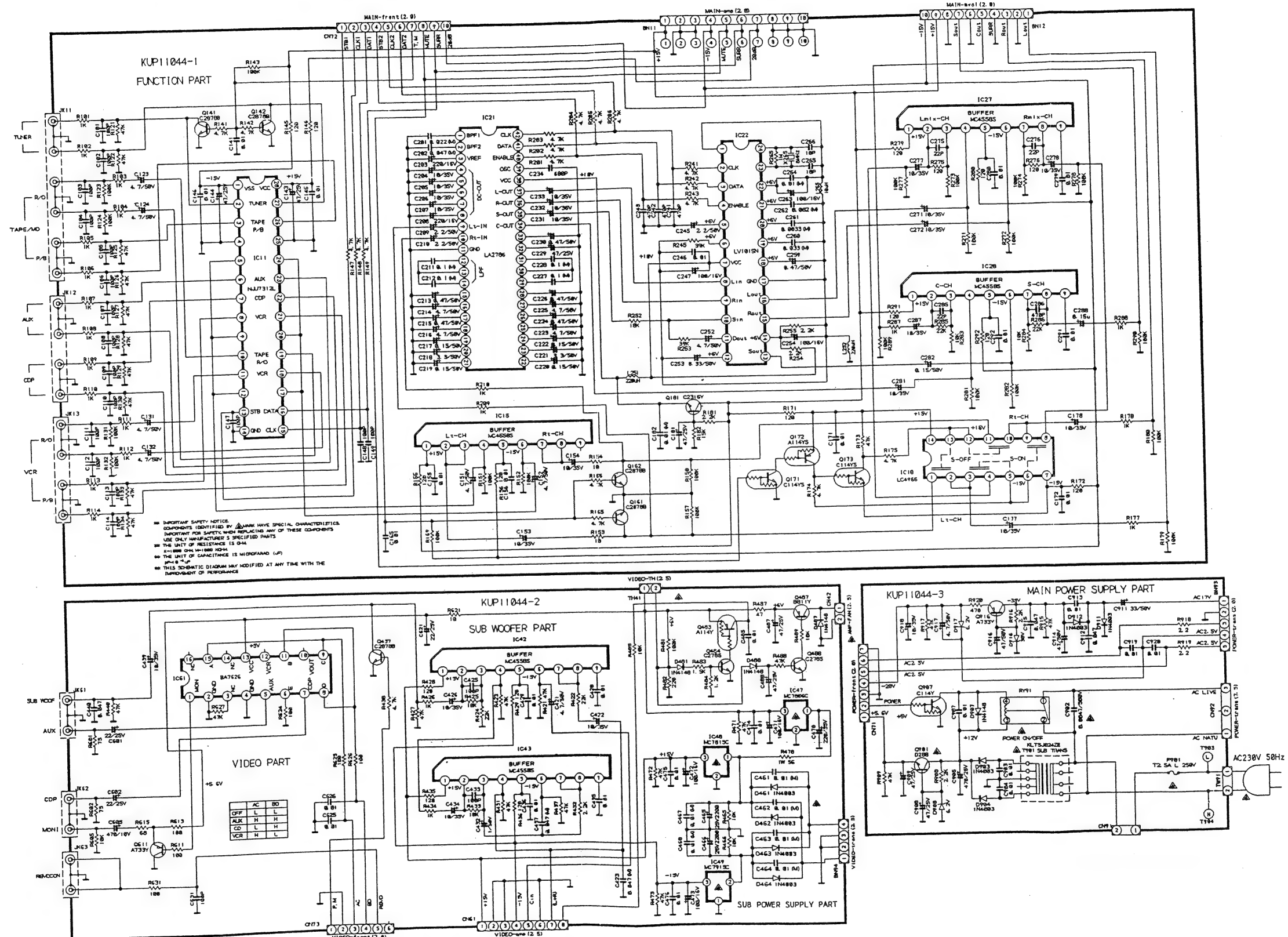
NO	PARTS - NO	DESCRIPTION	Q'Ty	REMARKS
1	KGU1A214A5X	WINDOW , FIP	1	
2	KGX1A275ZA	VOLUME CAP ASS'Y	1	
3	KKM1A089ZC19	PANEL , FRONT(AL)	1	
4	KGW1A259M7K78	PANEL , SUB(MOLD)	1	
5	KBT1A645M7K78	KNOB , TUNING	1	
6	KBT1A649M7K78	KNOB , STOP	1	
7	KGB1A082	BADGE	1	
8	KBT1A647M7K78	KNOB , POWER	1	
9	KBT3A390M7K79	KNOB , TACT (ST)	1	
10	KMD1A209	BRACKRT , FIP	2	
11	KUP11250Z	SUB PCB ASS'Y	1	
12	KKC1B076S29	CABINET , TOP	1	
13	KUP11250Z	MAIN PCB ASS'Y	1	
14	KKF1A188Z	PANEL , REAR	1	
15	KHR129	BUSHING , AC CORD	1	
16	KJA2B019Z	AC CORD	1	
17	KUA1A134	CHASSIS , BOTTOM	1	
18	KHG1A039Z	CUSHION , FOOT	4	
19	KKL1A047M7H8	FOOT	4	
20	KHE1A027	SUPPORT , PCB	4	
21	KBAEC0200TLE	FUSE	1	
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				

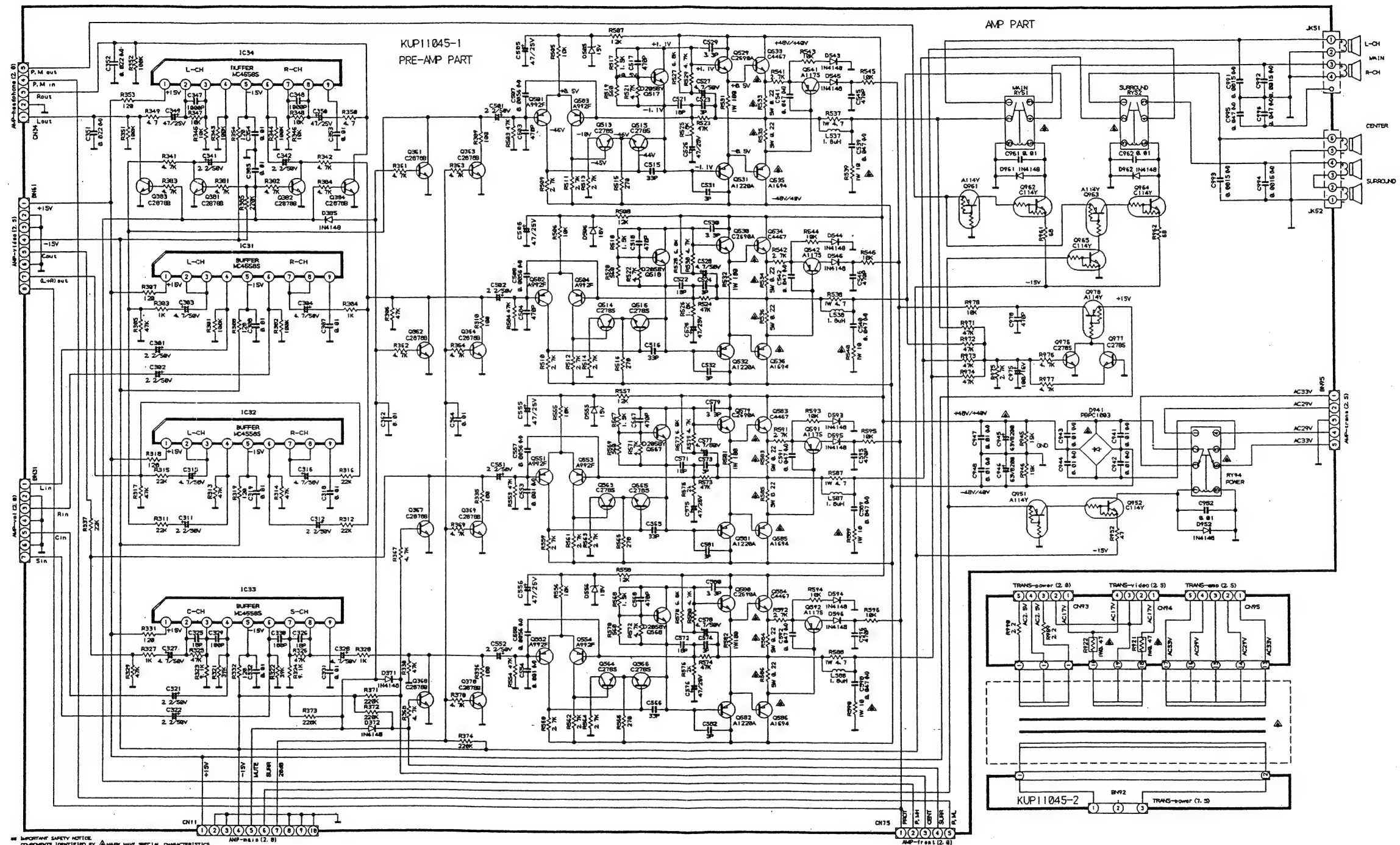
S1	KTSS+8G	SCREW	7	
S2	KTSS+8J	SCREW	4	
S3	KTBS+6J	SCREW	2	
S4	KTBS+10G	SCREW	14	
S5	STWS+10G	SCREW	1	
S6	KTB4+6FFZ	SCREW	2	
S7	KTBS+12G	SCREW	4	
S8	KTWS+8J	SCREW	6	
S9	FHD1A024FC	SCREW	2	
S10	KTBS+6JFC	SCREW	3	
S11	KTBS+10GFFZ	SCREW	6	
S12	KTBS+8JFZ	SCREW	2	

BLOCK DIAGRAM

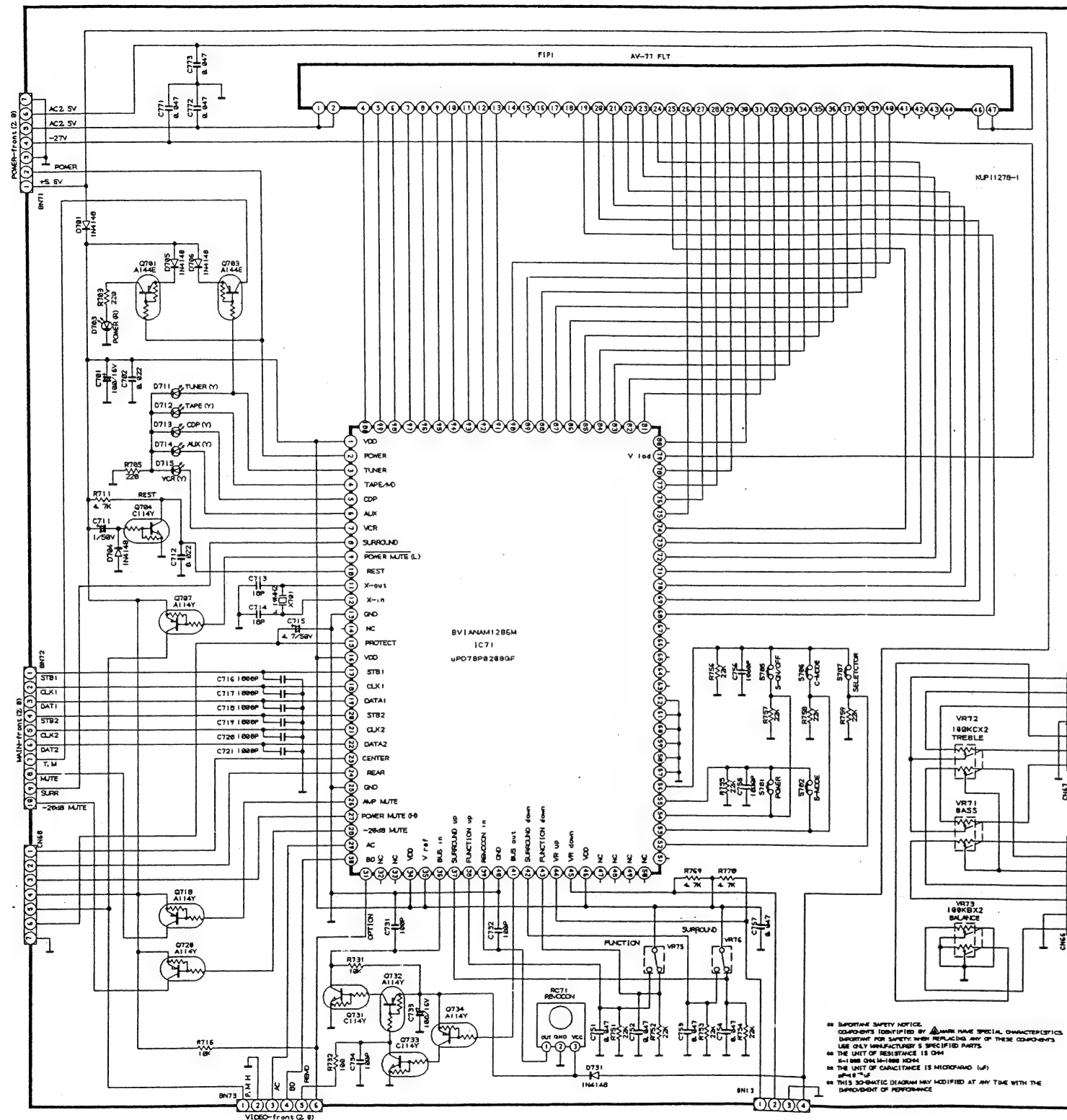


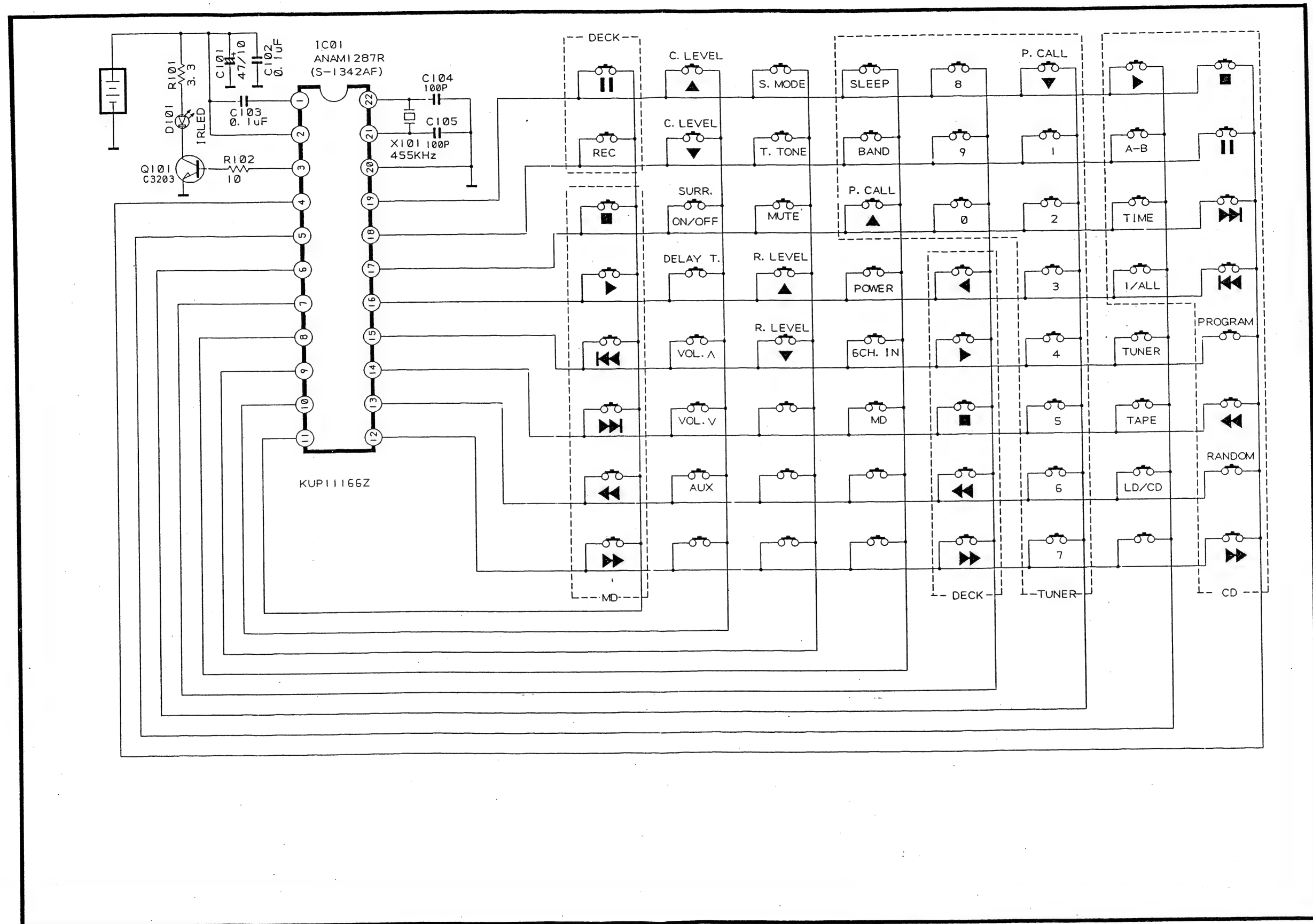
SCHEMATIC DIAGRAM





IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY A MARK HAVE SPECIAL CHARACTERISTICS.
IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS.
USE ONLY MANUFACTURER'S SPECIFIED PARTS.
THE UNIT OF RESISTANCE IS OHM.
RESISTOR VALUES IN OHMS.
THE UNIT OF CAPACITANCE IS MICROFARAD (UF).
RESISTOR VALUES IN KILOHMS (K).
THIS SCHEMATIC DIAGRAM MAY BE MODIFIED AT ANY TIME WITH THE
IMPROVEMENT OF PERFORMANCE.

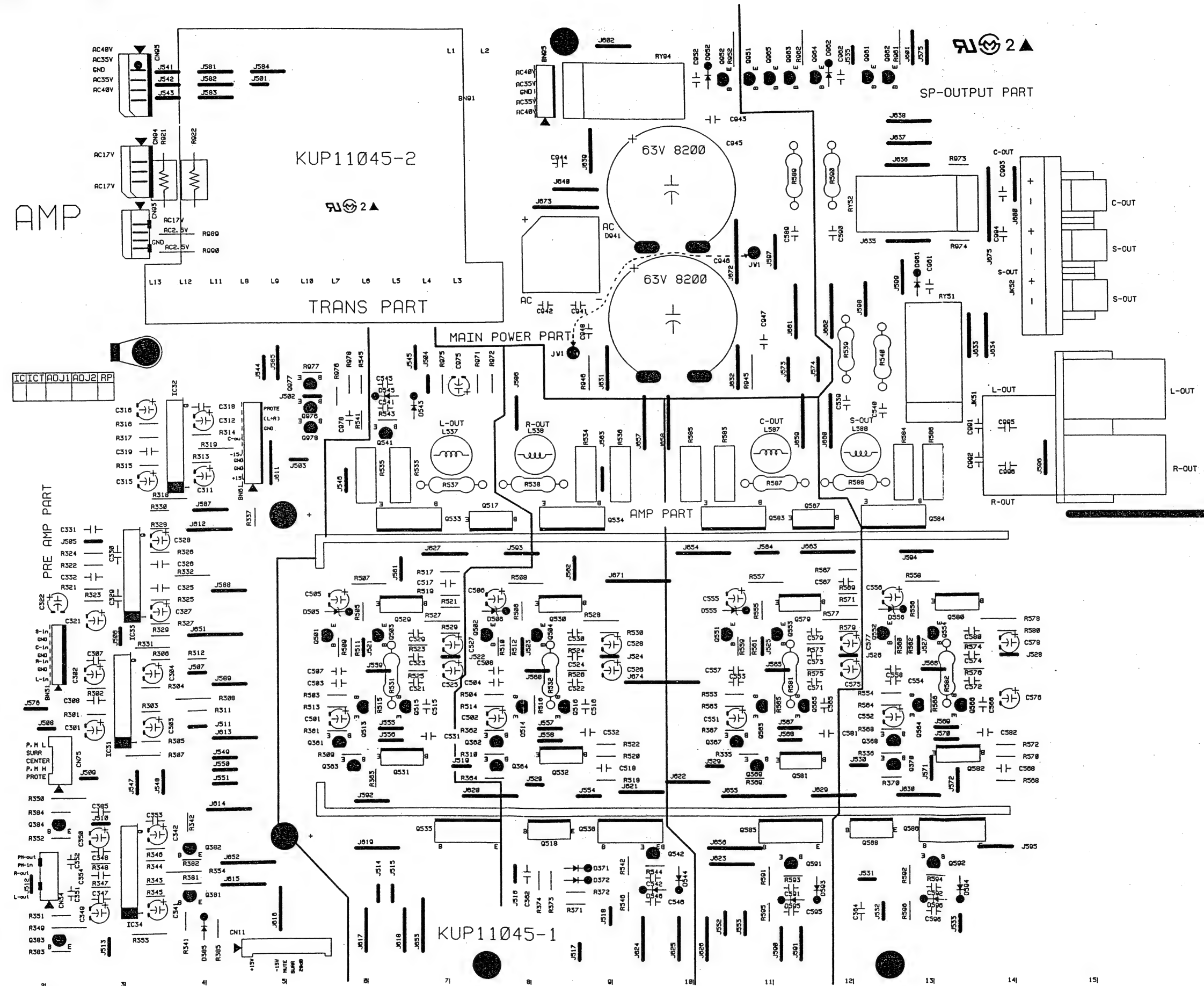


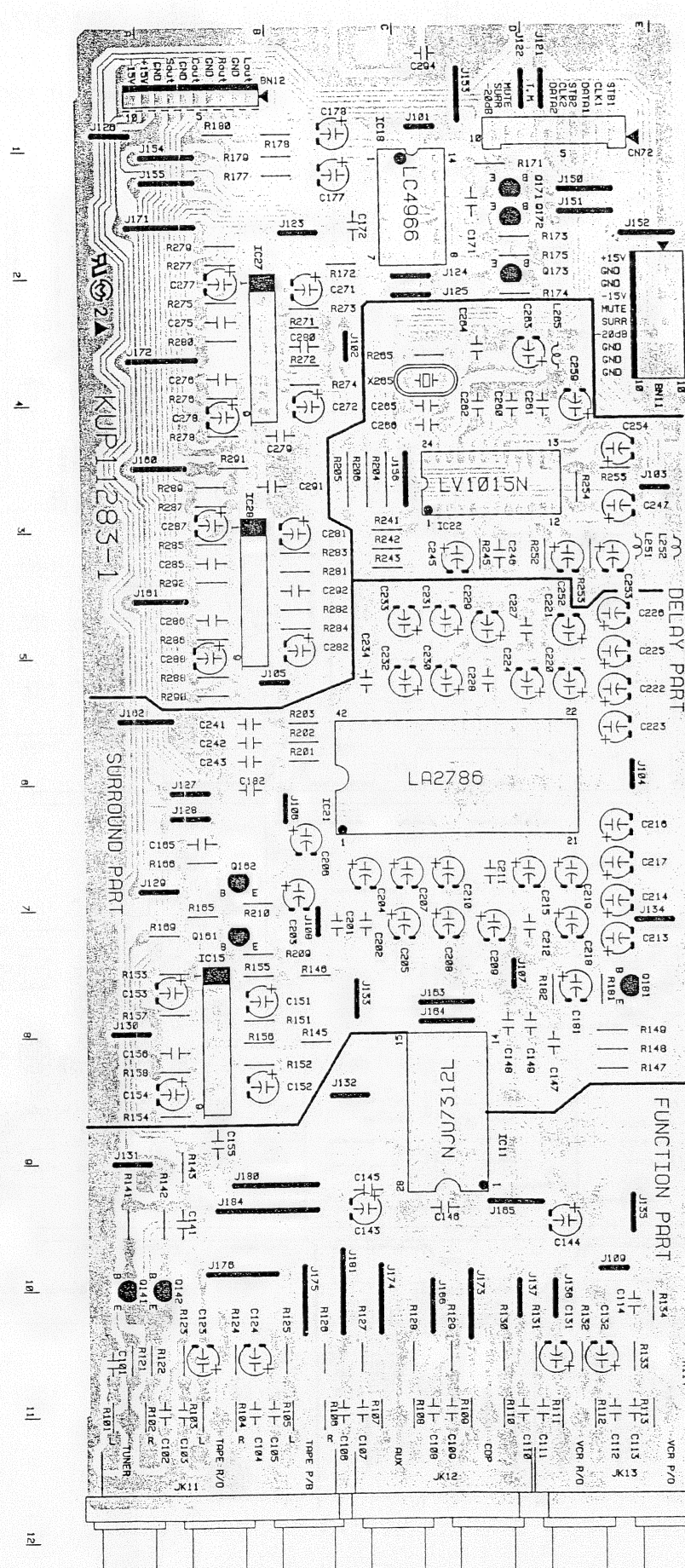
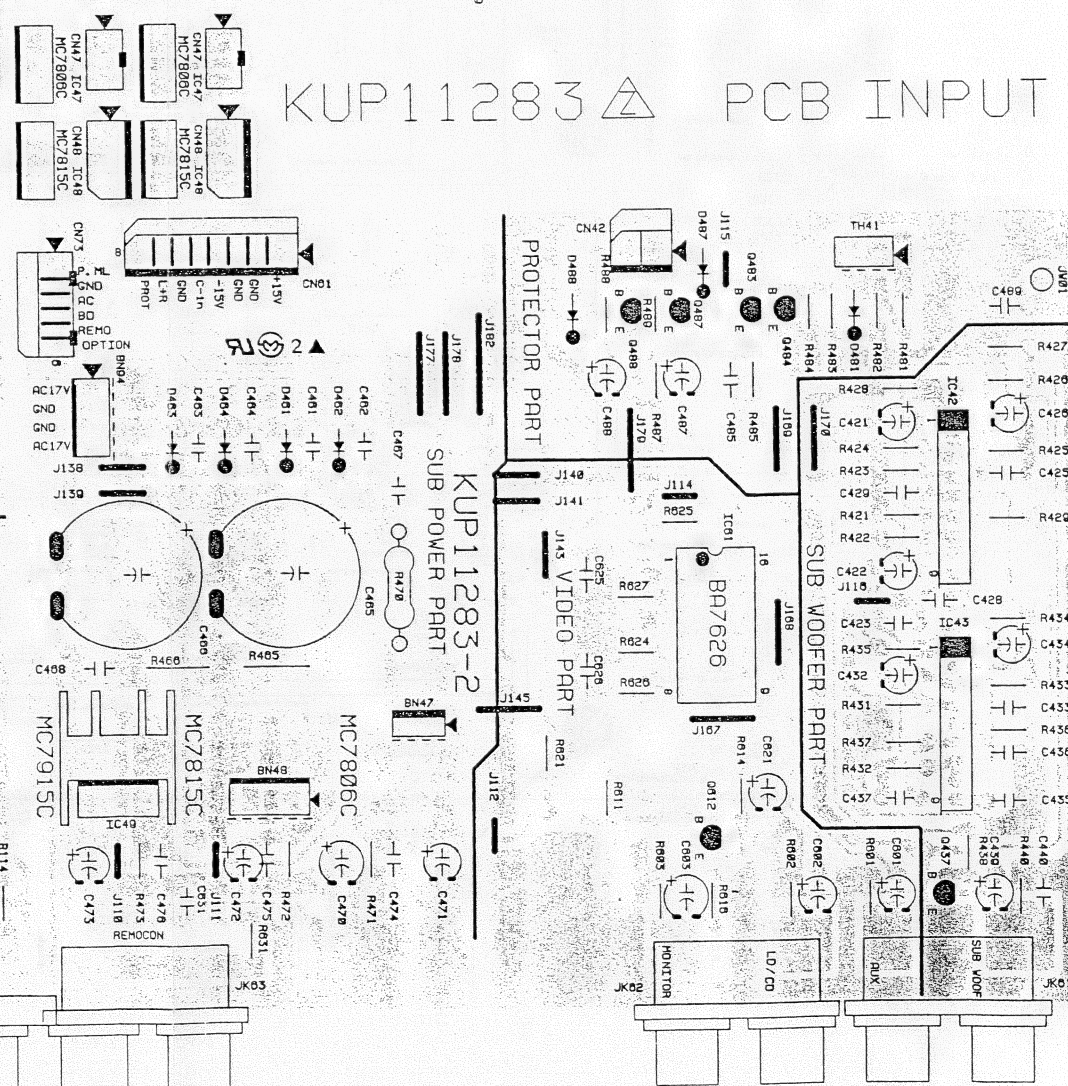
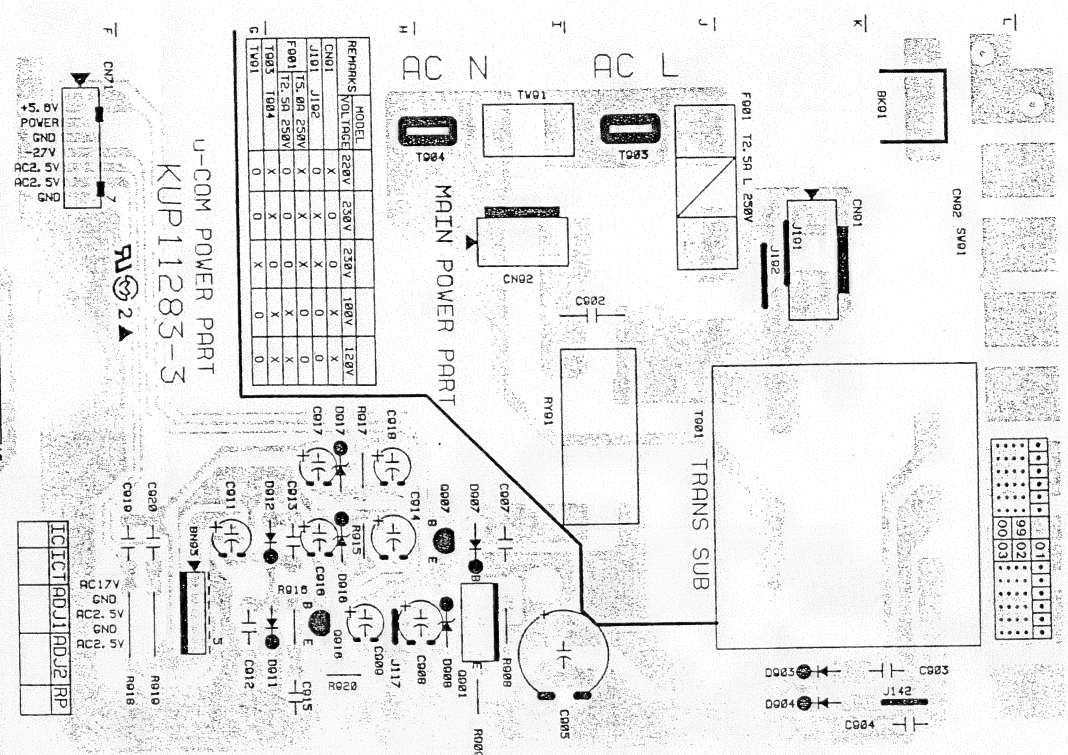


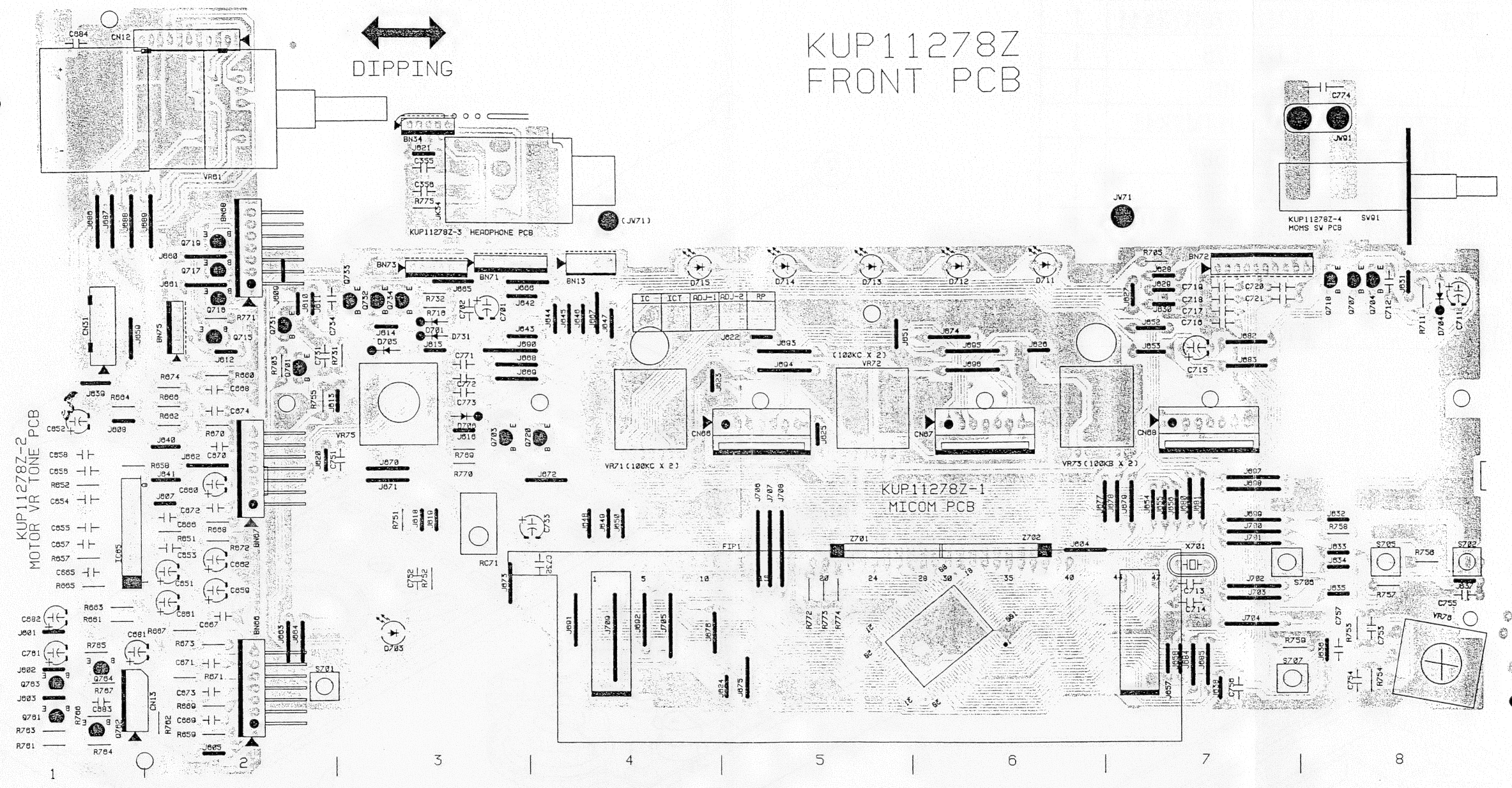
PRINTED DIRCUIR BOARDS

PCB AMP

KUP11045







KUP11278Z
FRONT PCB

KUP11278Z-2
MOTOR VR TONE PCB

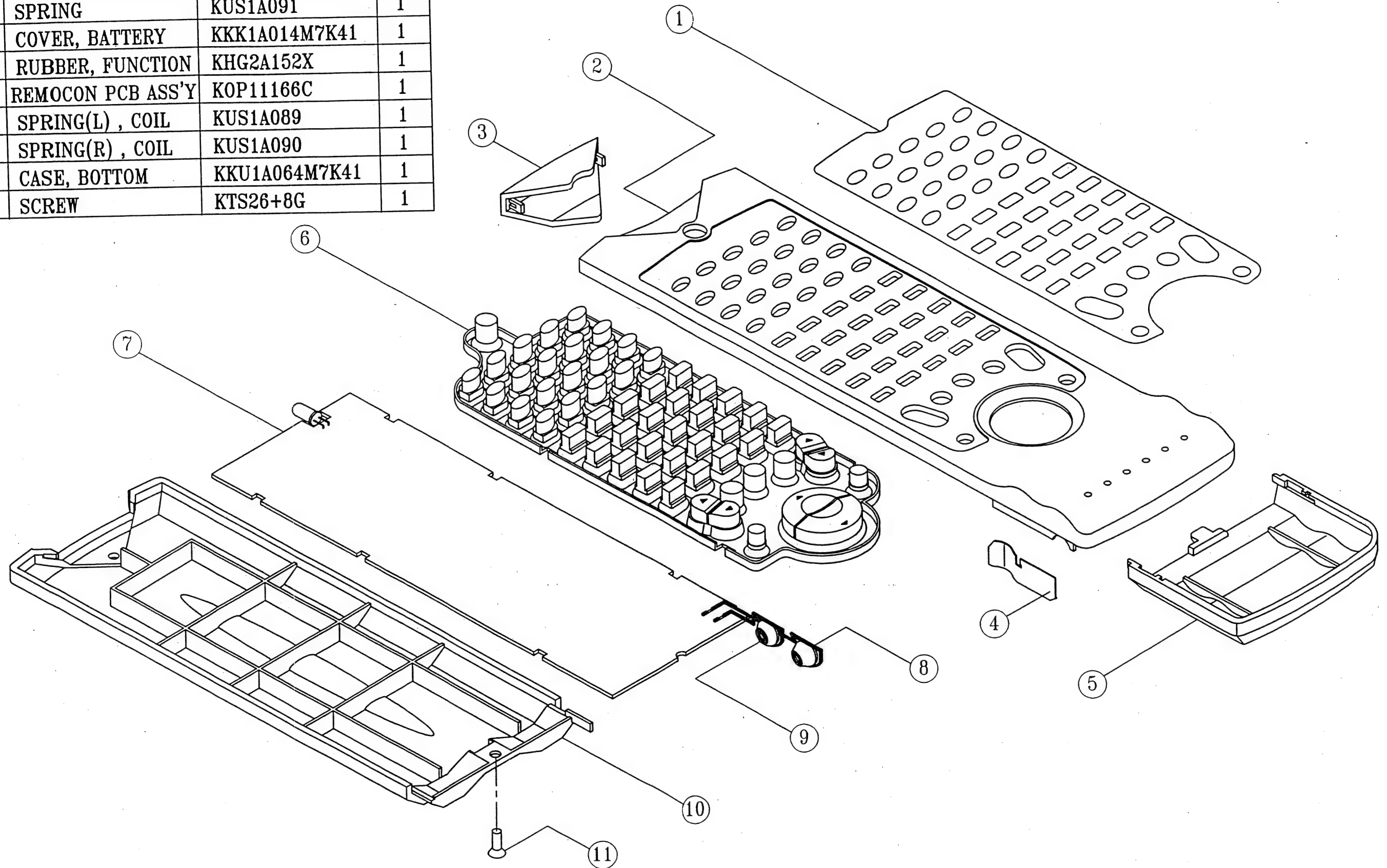
KUP11278Z-3
HEROPHONE PCB

KUP11278Z-4
MOMS SW PCB

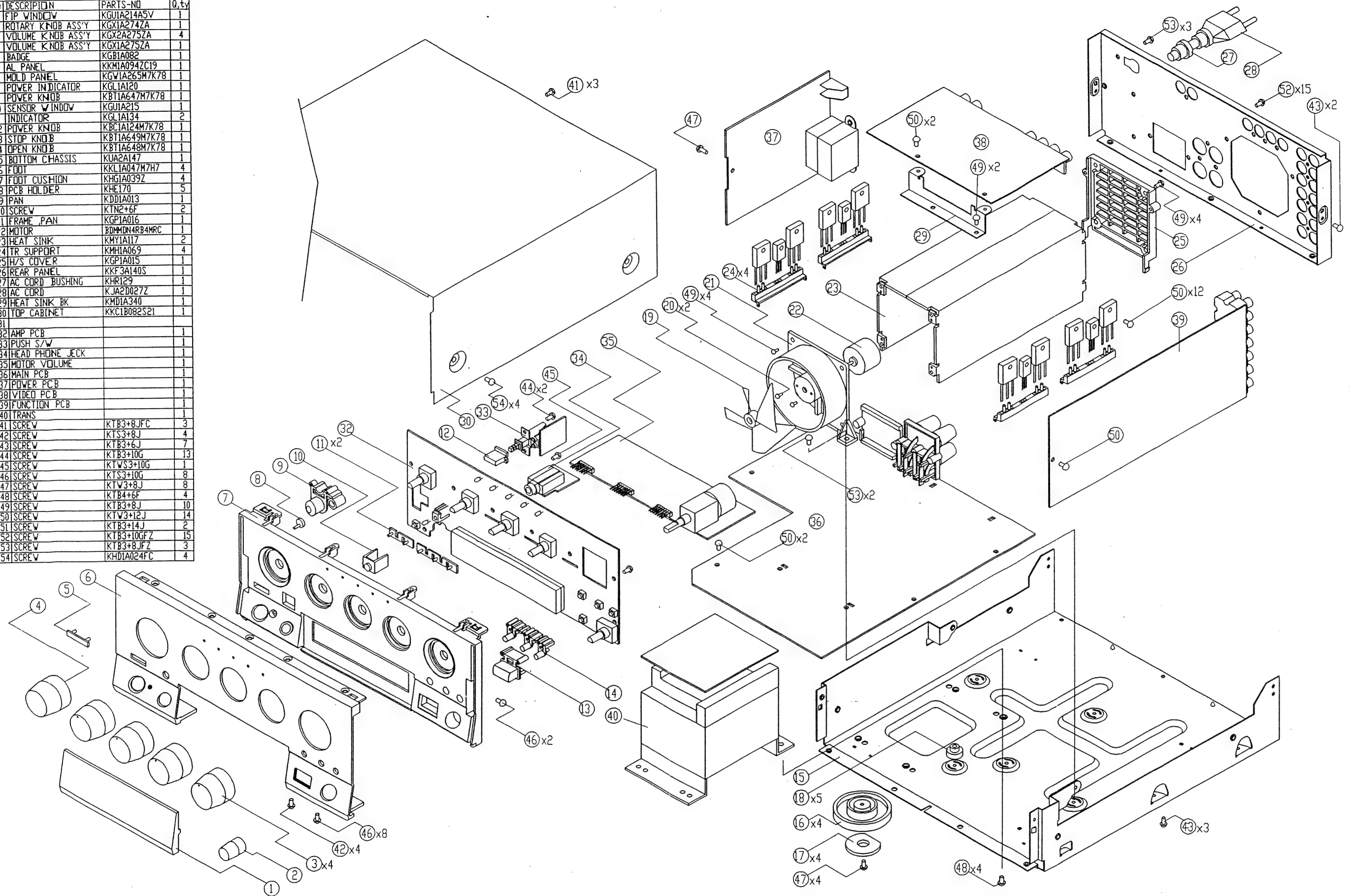
KUP11278Z-1
MICOM PCB

EXPLODED VIEW

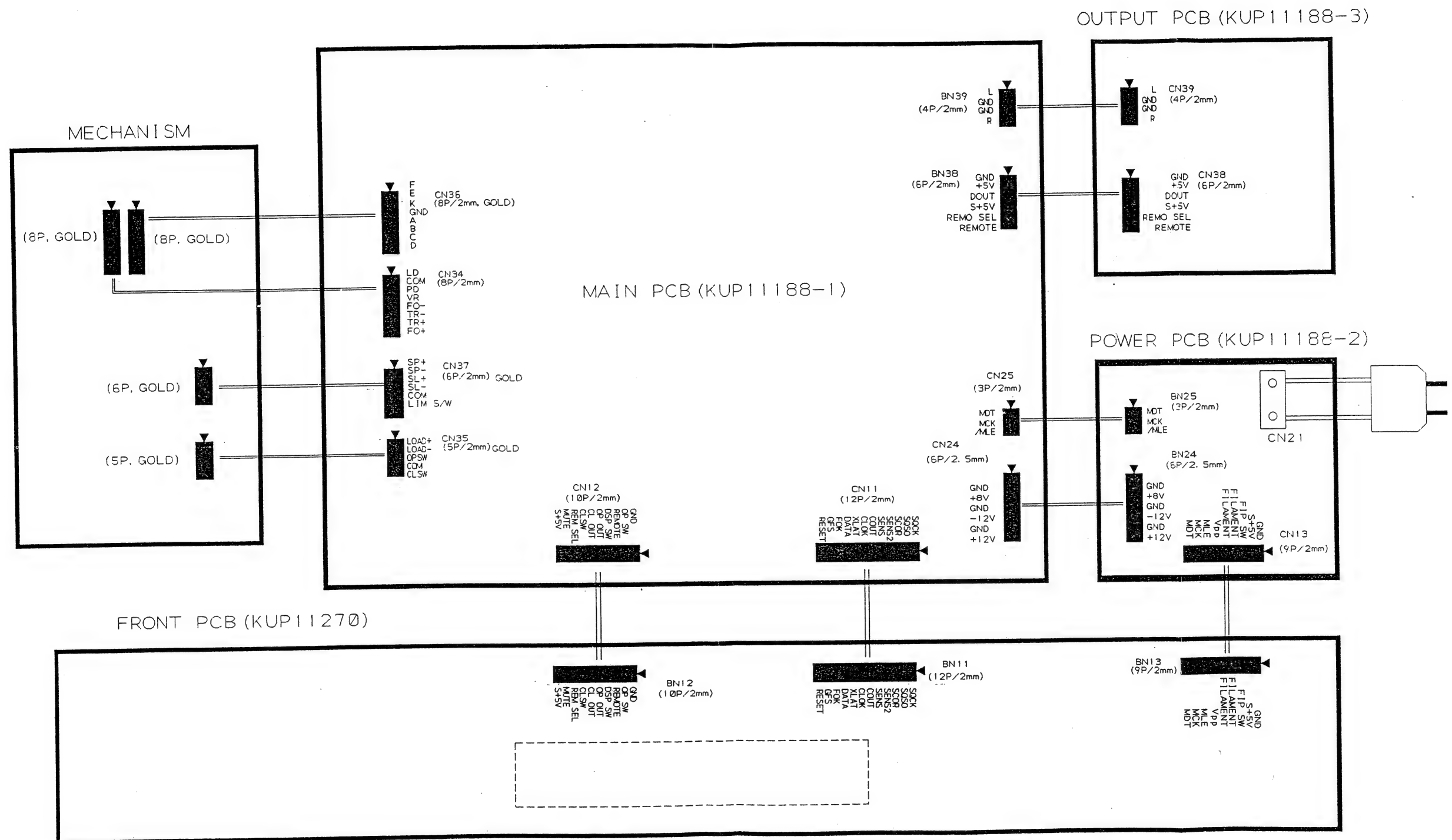
NO.	DESCRIPTION	PARTS-NO	Q'TY
1	SHEET, FUNCTION	KGX2A254X	1
2	CASE , TOP	KKM1A076M7XK41	1
3	WINDOW	KGU1A178	1
4	SPRING	KUS1A091	1
5	COVER, BATTERY	KKK1A014M7K41	1
6	RUBBER, FUNCTION	KHG2A152X	1
7	REMOCON PCB ASS'Y	KOP11166C	1
8	SPRING(L) , COIL	KUS1A089	1
9	SPRING(R) , COIL	KUS1A090	1
10	CASE, BOTTOM	KKU1A064M7K41	1
11	SCREW	KTS26+8G	1



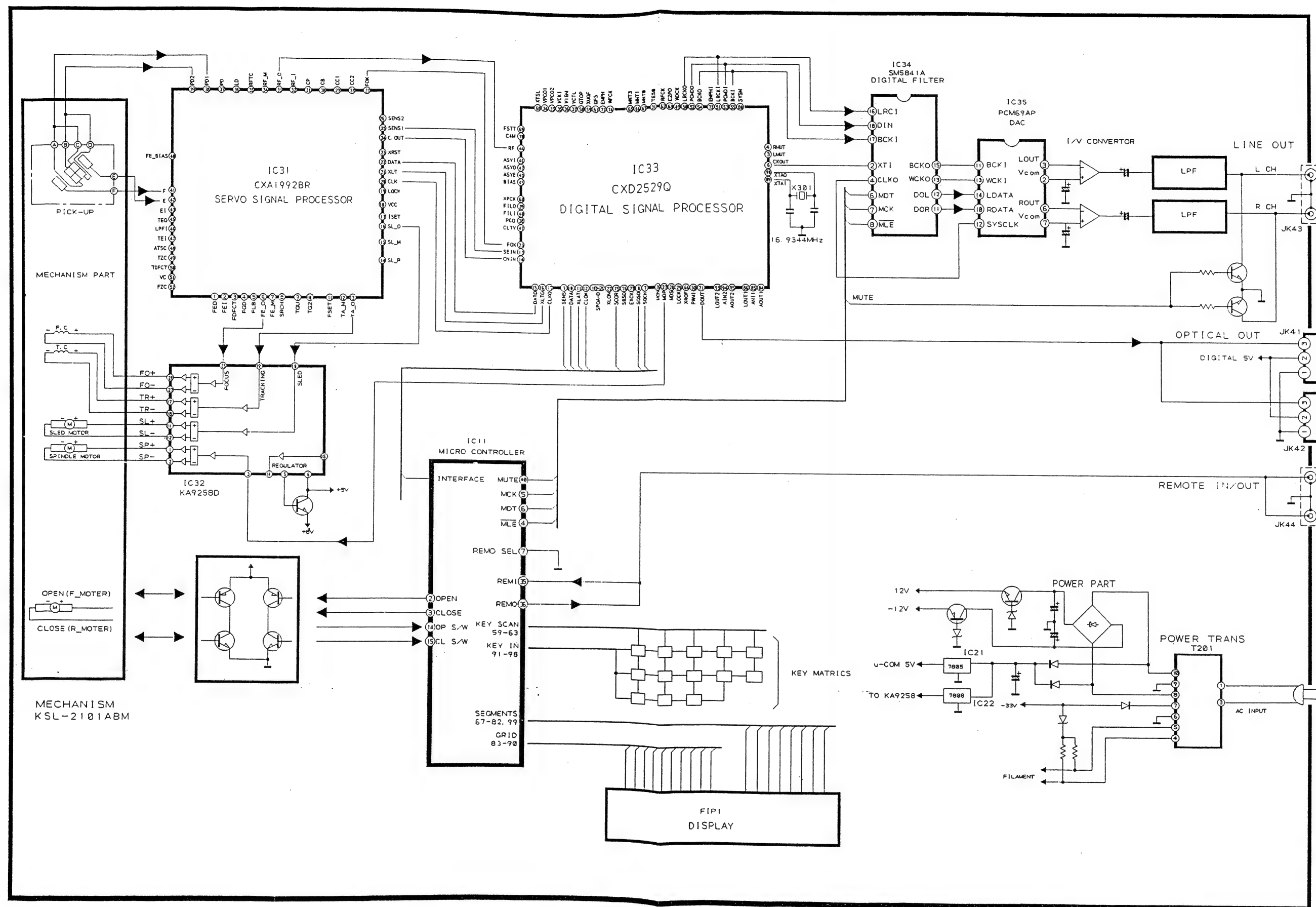
NO	DESCRIPTION	PARTS-NO	Q.ty
1	TOP WINDOW	KG1A214ASV	1
2	ROTARY KNOB ASS'Y	KG1A214ZA	1
3	VOLUME KNOB ASS'Y	KGX2A275ZA	4
4	VOLUME KNOB ASS'Y	KGX1A275ZA	1
5	BADGE	KB1A082	1
6	AL PANEL	KKM1A094ZC19	1
7	MOLD PANEL	KGW1A265M7K78	1
8	POWER INDICATOR	KGL1A120	1
9	POWER KNOB	KBT1A647M7K78	1
10	SENSOR WINDOW	KG1A215	1
11	INDICATOR	KGL1A134	2
12	POWER KNOB	KBC1A124M7K78	1
13	STOP KNOB	KBT1A649M7K78	1
14	OPEN KNOB	KBT1A648M7K78	1
15	BOTTOM CHASSIS	KUA2A147	1
16	FOOT	KKL1A047M7H7	4
17	FOOT CUSHION	KHG1A039Z	4
18	PCB HOLDER	KHE170	5
19	PAN	KDD1A013	1
20	SCREW	KTN2+6F	2
21	FRAME PAN	KGP1A016	1
22	MOTOR	BDMMN4RB4MRC	1
23	HEAT SINK	KMY1A117	2
24	TR SUPPORT	KMH1A069	4
25	H/S COVER	KGP1A015	1
26	REAR PANEL	KKF3A140S	1
27	AC CORD BUSHING	KHR129	1
28	AC CORD	KJA2D027Z	1
29	HEAT SINK BK	KMD1A340	1
30	TOP CABINET	KKC1B082S21	1
31			
32	AMP PCB		1
33	PUSH S/W		1
34	HEAD PHONE JACK		1
35	MOTOR VOLUME		1
36	MAIN PCB		1
37	POWER PCB		1
38	VIDEO PCB		1
39	FUNCTION PCB		1
40	TRANS		1
41	SCREW	KTB3+8JFC	3
42	SCREW	KTS3+8J	4
43	SCREW	KTB3+6J	7
44	SCREW	KTB3+10G	13
45	SCREW	KTVS3+10G	1
46	SCREW	KTS3+10G	8
47	SCREW	KTV3+8J	8
48	SCREW	KTB4+6F	4
49	SCREW	KTB3+8J	10
50	SCREW	KTV3+12J	14
51	SCREW	KTB3+14J	2
52	SCREW	KTB3+10GFZ	15
53	SCREW	KTB3+8JFZ	3
54	SCREW	KHD1A024FC	4



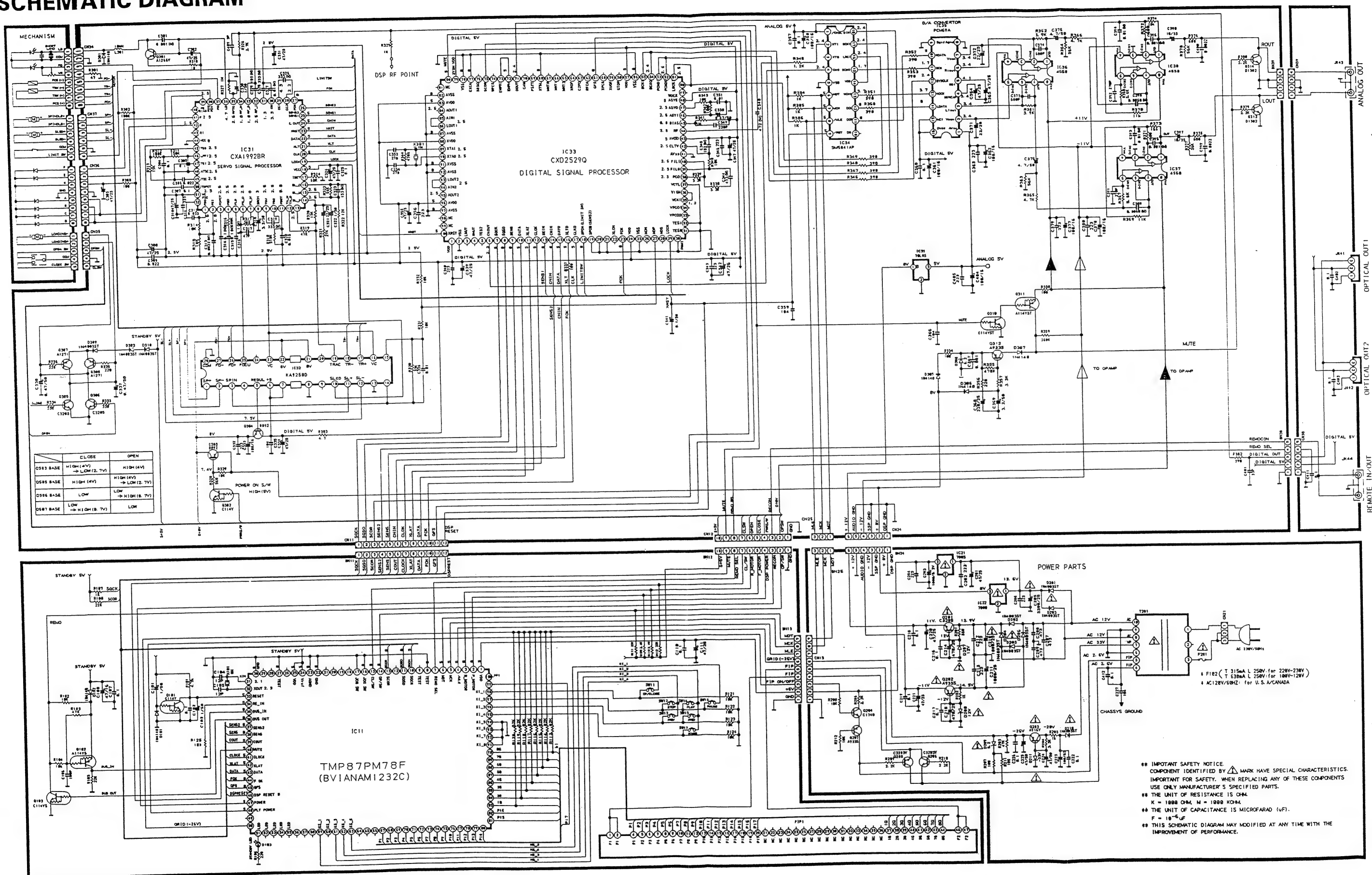
WIRING DIAGRAM

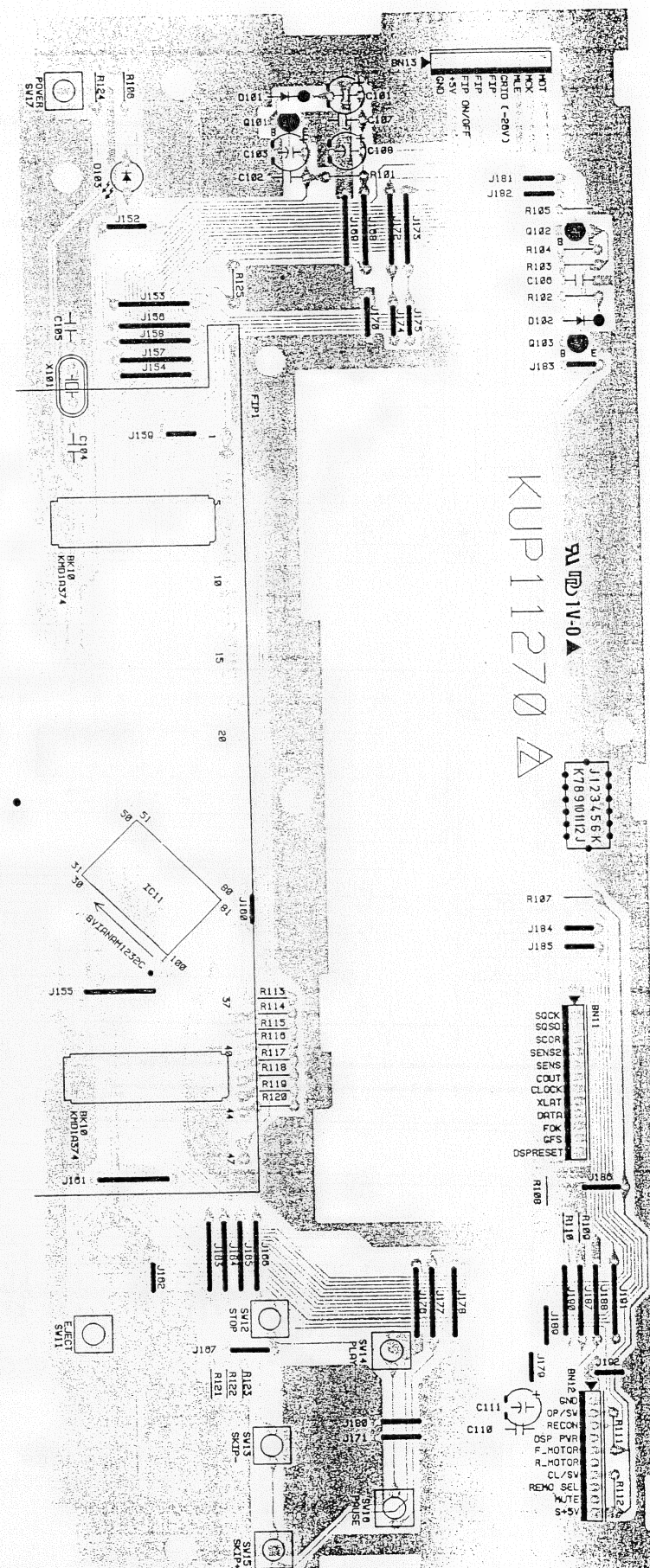


BLOCK DIAGRAM



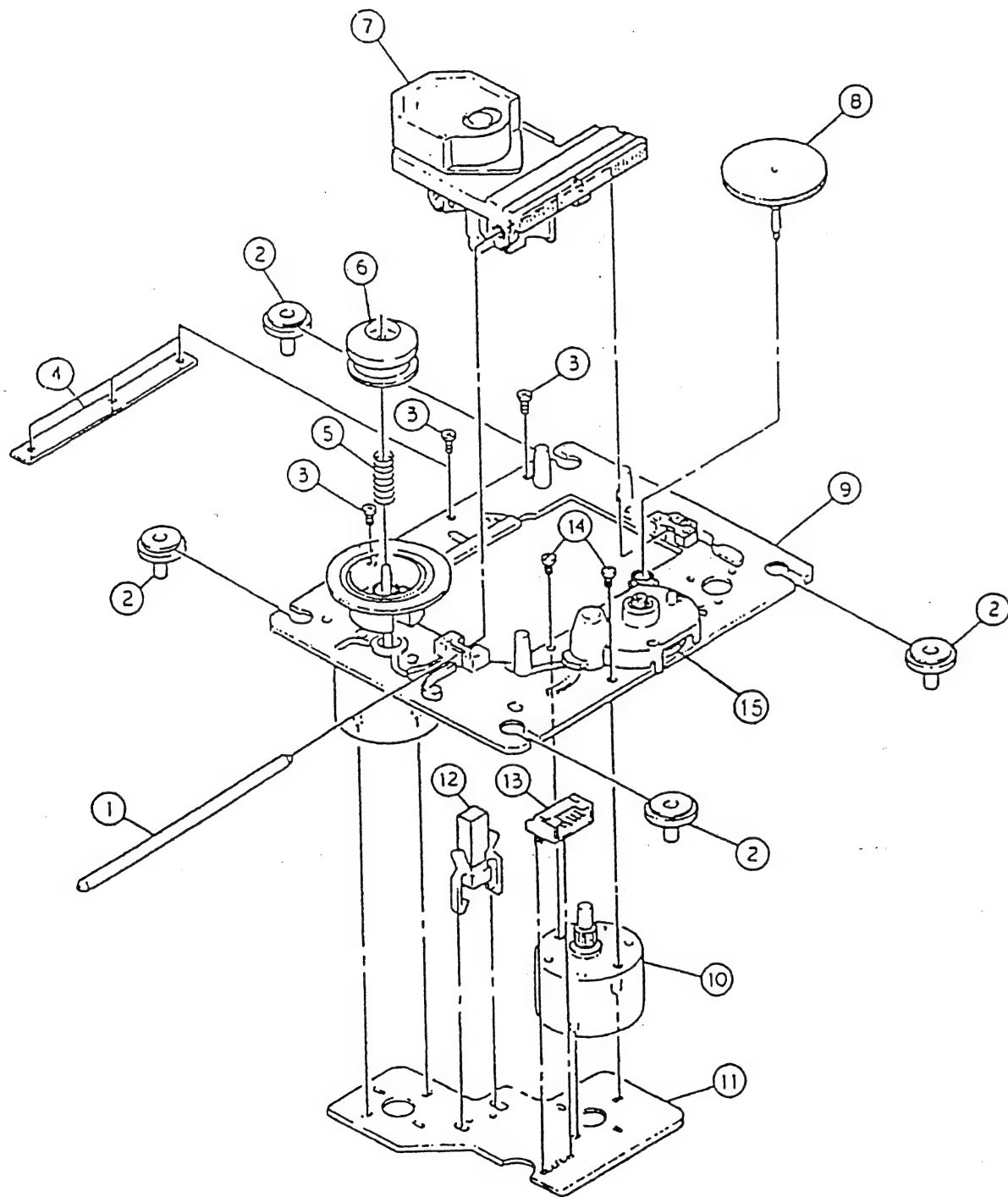
SCHEMATIC DIAGRAM



[illegible]

MECHANISM ASS'Y

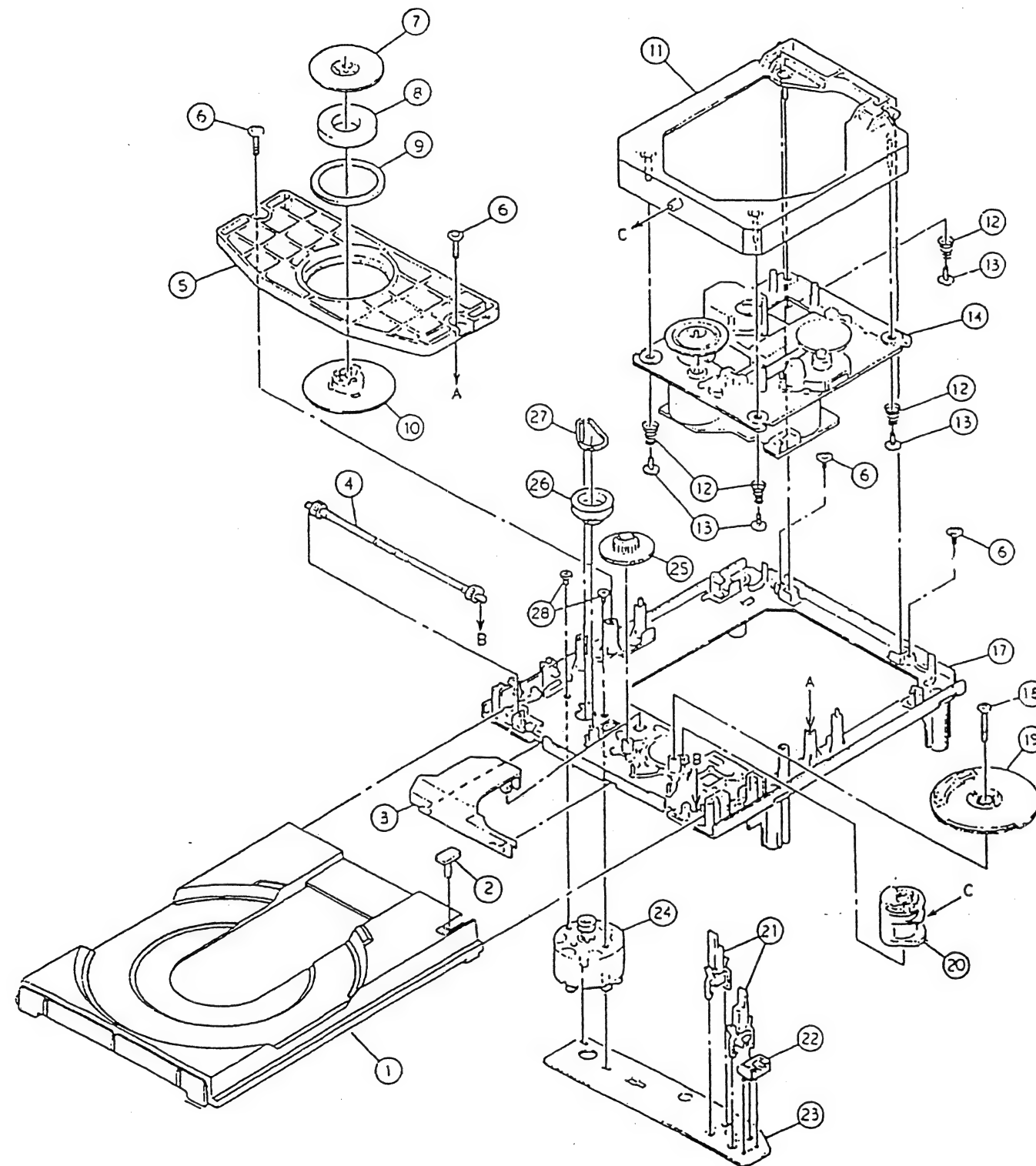
KSM-2101ABM
Disassembly Drawing



MECHANISM ASS'Y (KSM-2101ABM)

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1	2-626-908-01	SLED SHAFT (S)	
2- 2	2-625-538-01	INSULATOR (S)	
2- 3	2-641-386-01	SCREW (2X5), TAPPING (S)	
2- 4	2-625-625-01	REINFORCEMENT(S)	
2- 5	2-625-465-01	SPRING (S), COMPRESSION	
2- 6	2-625-477-01	RING (LO)(S),CENTER	
2- 7	8-848-127-31	PIKU UP	
2- 8	2-625-462-02	GEAR (A)(S)	
2- 9	X-2625-133-2	CHASSIS ASSY (MB), TT	
2-10	X-2625-132-1	GEAR ASSY (MB), MOTOR	
2-11	1-639-678-13	MOTOR PCB (6P)(S)	
2-12	1-572-085-12	SWITCH, LEAF	
2-13	1-564-722-11	PIN, CONNECTOR 6P	
2-14	7-621-255-15	SCREW +P2X3	
2-15	2-626-081-01	GEAR (B)	

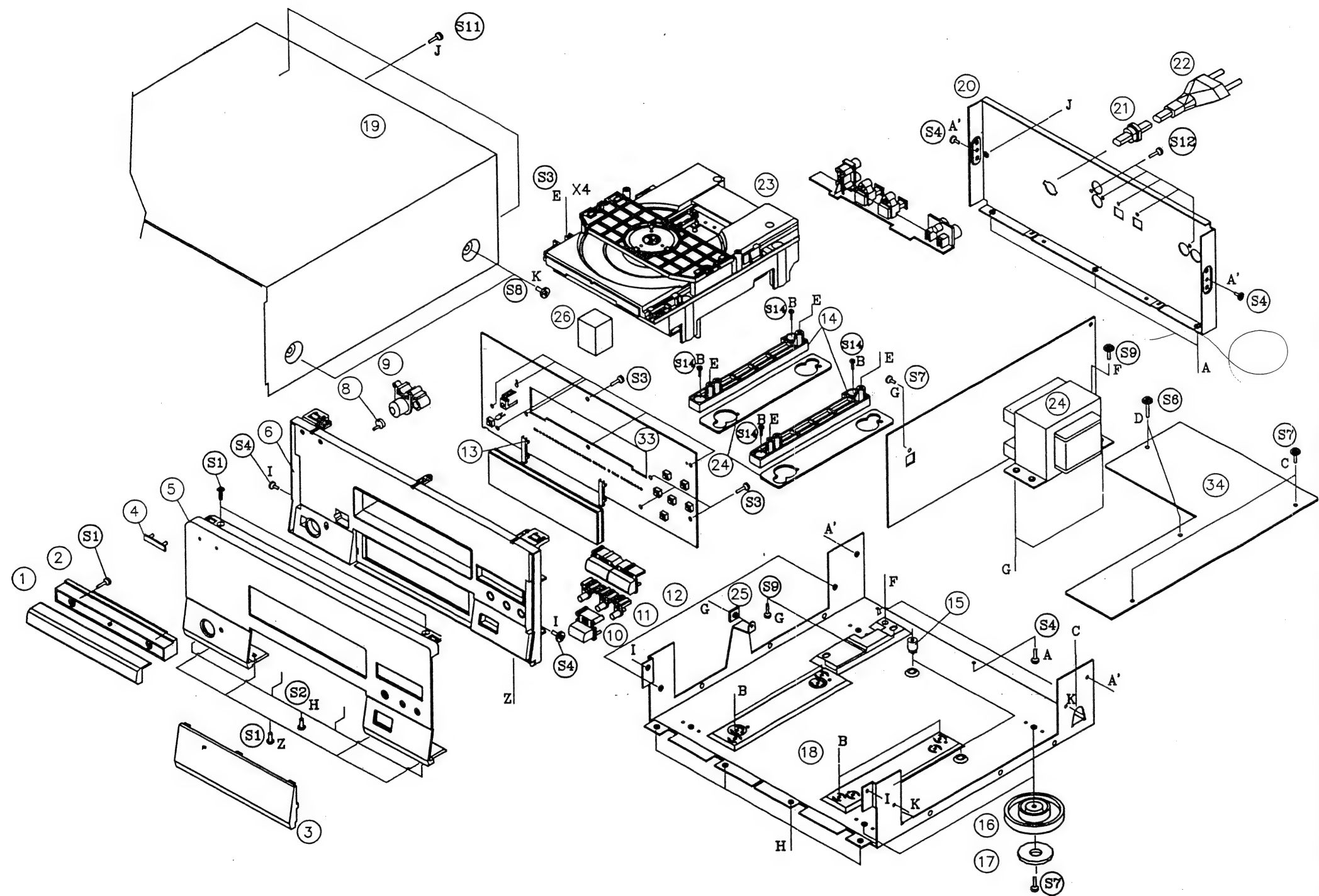
KSL-2101ABM
Disassembly Drawing



MECHANISM ASS'Y (KSM-2101ABM)

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1- 1	2-625-550-03	TRAY (S)	
1- 2		VACANT	
1- 3	2-625-544-02	GEAR COVER (S)	
1- 4	2-625-535-01	TRAY GEAR	
1- 5	2-625-546-01	CHUCKING PLATE	
1- 6	2-626-294-01	+PTPWH 2.6*7	
1- 7	2-625-537-01	YOKE (S), SHUCKING	
1- 8	1-452-493-21	MAGNET	
1- 9	2-625-541-02	DAMPA	
1-10	2-625-548-02	CHUCKING PULLY	
1-11	X-2625-227-2	SUB CHASSIS ASSY (S)	
1-12	2-625-539-01	SPRING (S)	
1-13	2-625-730-01	SCREW	
1-14		VACANT	
1-15		VACANT	
1-16		VACANT	
1-17	2-625-552-07	AUTO SAD MAIN CHSSIS (S)	
1-18	3-319-501-51	SCREW + PTPWH 2.6X16	
1-19	2-625-547-03	DRIVER GEAR (S)	
1-20	2-625-545-04	CONTROL CAM (S)	
1-21	1-692-667-11	LEAF SW	
1-22	1-564-721-11	PIN, CONNECTOR 5P	
1-23	1-640-523-12	LOADING PWB (S)	
1-24	X-2625-117-1	MOTOR ASSY, LOADING	
1-26	2-625-536-02	LOADING PULLY	
1-28	2-625-279-01	SCREW +B2.6X2.5	

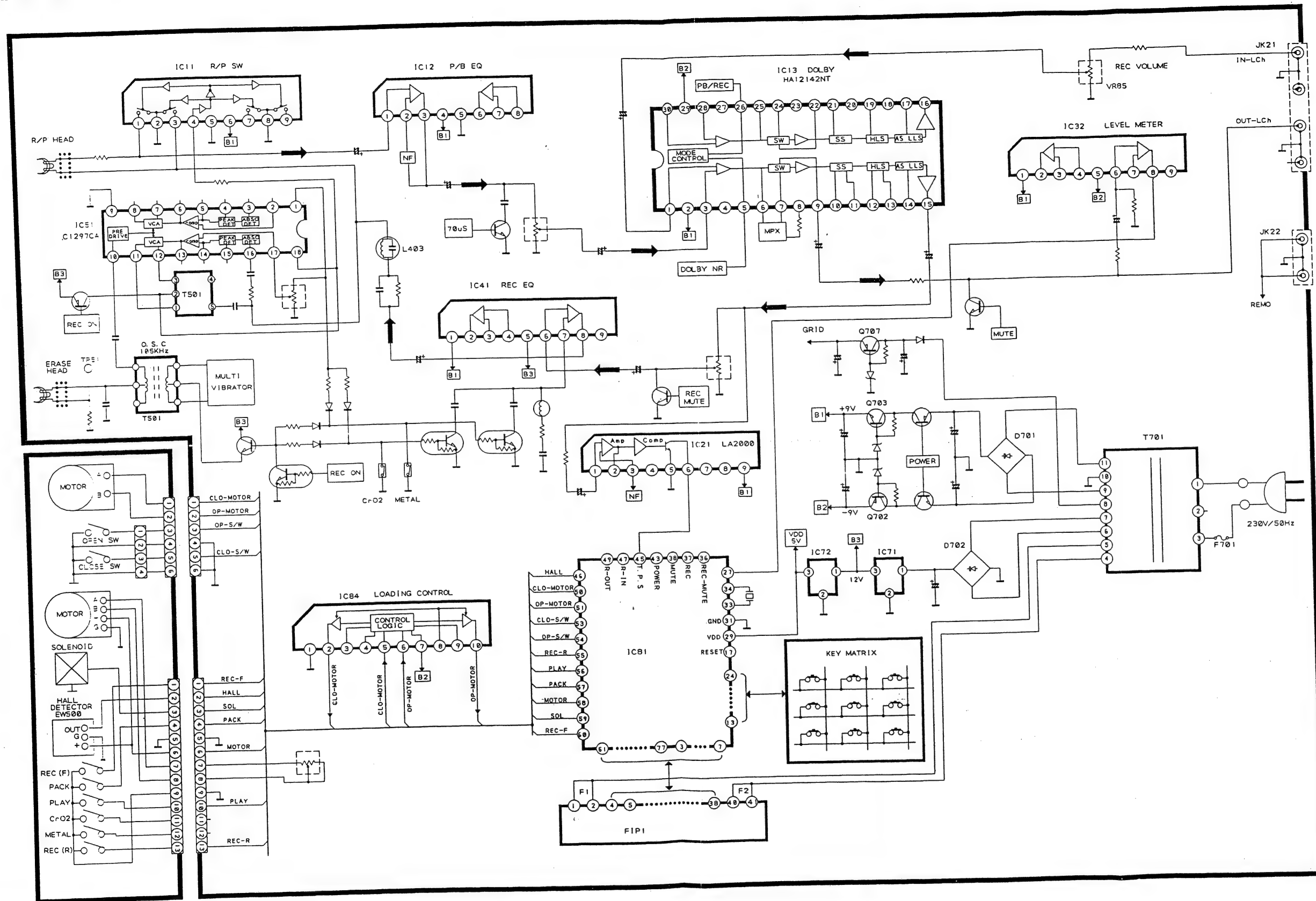
EXPLODED VIEW



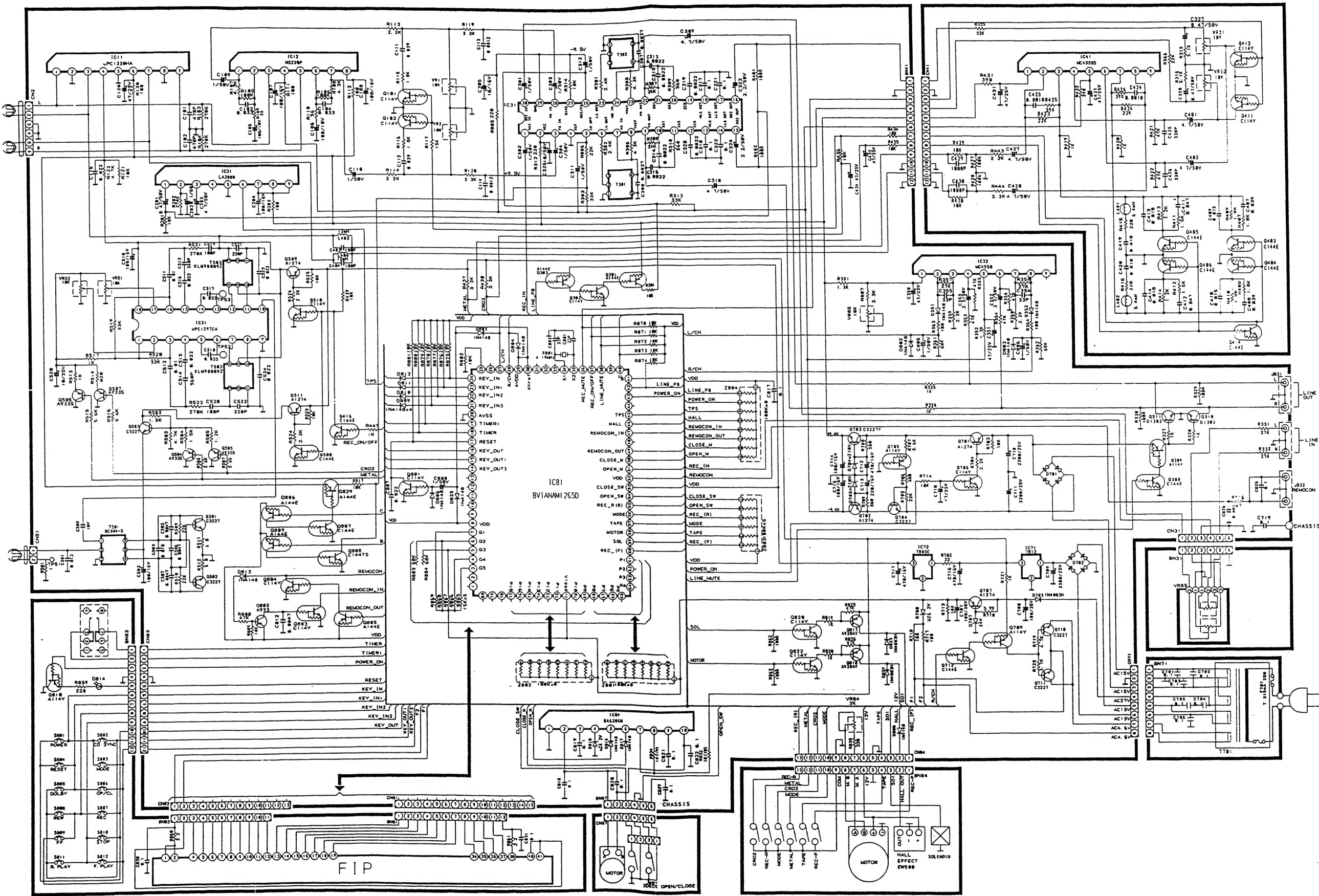
NO	PARTS - NO	DESCRIPTION	QTY	MODEL NO.
1	KGX1A2727C19	ORNAMENT DECOR	1	
2	KGX1A152K17	DOOR CD	1	
3	KGX1A214A57	VINDOV.FTP	1	
4	KGX1A082	BADGE	2	
5	KKM2A0917C19	PANEL AJ	1	
6	KGX1A1262M7K78	PANEL SUB	1	
7				
8	KGX1A120	INDICATOR POWER	1	
9	KBT1A647M7K78	KNOB POWER	1	
10	KBT1A648M7K78	KNOB OPEN	1	
11	KBT1A649M7K78	KNOB STOP	1	
12	KBT1A650M7K78	KNOB PLAY	1	
13	KND1A374	BRACKET.FLT	2	
14	KMH1A086	SUPPORT MECHA	2	
15	KGX1A023	MOUNT.PCB	3	
16	KK11A047M7H8	FOOT	4	
17	KGX1A039Z	FOOT RUBBER	4	
18	KU2A137	MAIN CHASSIS	1	
19	KKC3B077S29	CABINET.TOP	1	
20	KKF3A127P	PANEL REAR	1	
21	KHR129	RUSHING AC CORD	1	
22		CORD POWER	1	
23	BJTKN1-PI0ARM	CD MECHANISM ASS'Y	1	
24	KHG1A163	RUBBER SUPPORT	2	
25	KHG1A115	RUBBER	1	
26	KHG1A167	RUBBER CUSHION	1	
27				
28				
29				
30				
31				
32				
33		SUB PCB ASS'Y	1	
34		MAIN PCB ASS'Y	1	

S1	KTR3+6.J	SCREW	3	
S2	KTS3+8.J	SCREW	4	
S3	KTR3+10G	SCREW	14	
S4	KTR3+8.J	SCREW	4	
S5	KKM1A016	SCREW	4	
S6	KTR3+14.J	SCREW	2	
S7	KTV3+8.J	SCREW	7	
S8	KTB4+6FFZ	SCREW	4	
S9	KTB4+8F	SCREW	3	
S10	KTB3+6F	SCREW	4	
S11	KTB3+8.JFZ	SCREW	3	
S12	KTB3+10FFZ	SCREW	5	

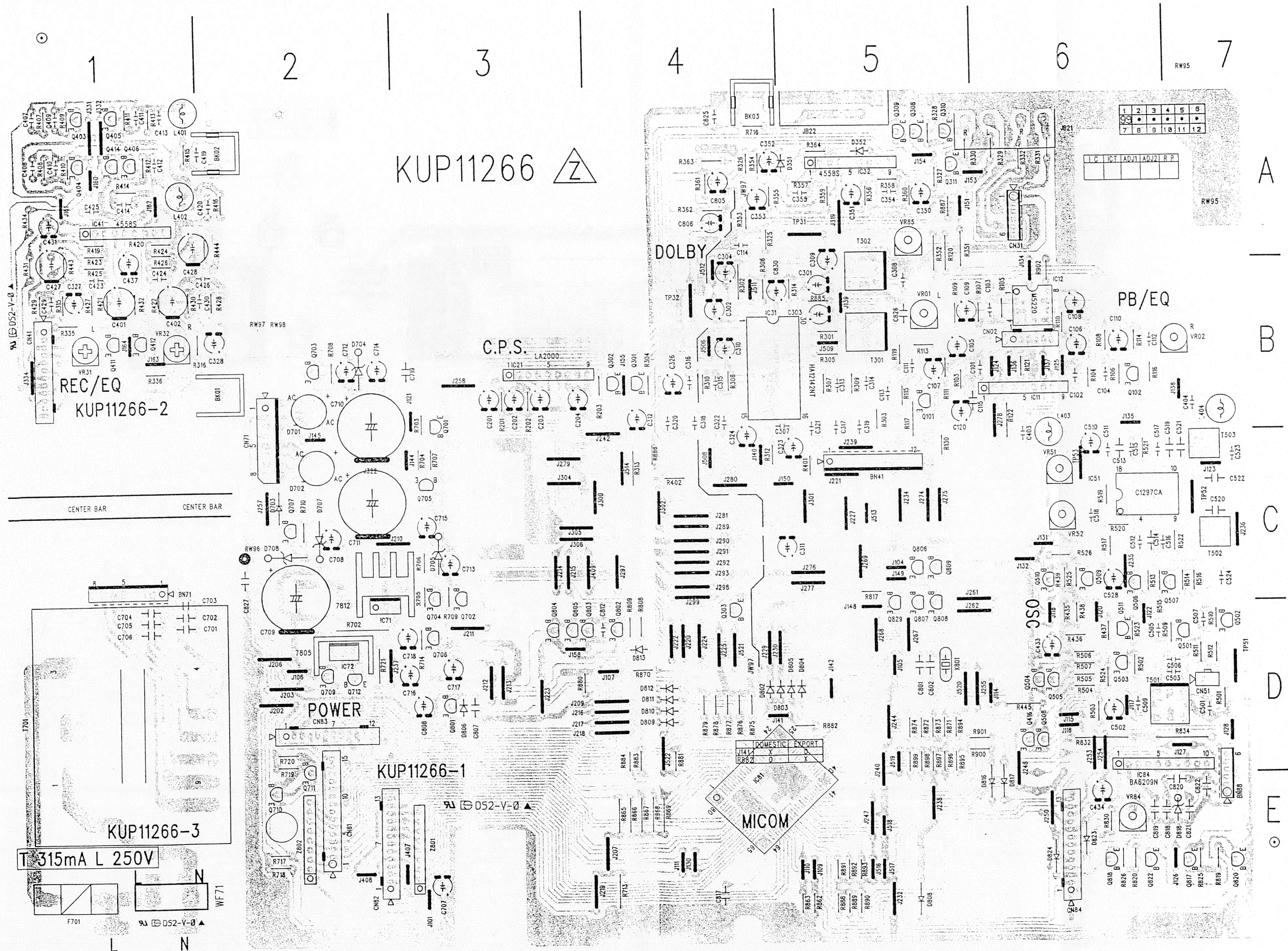
BLOCK DIAGRAM

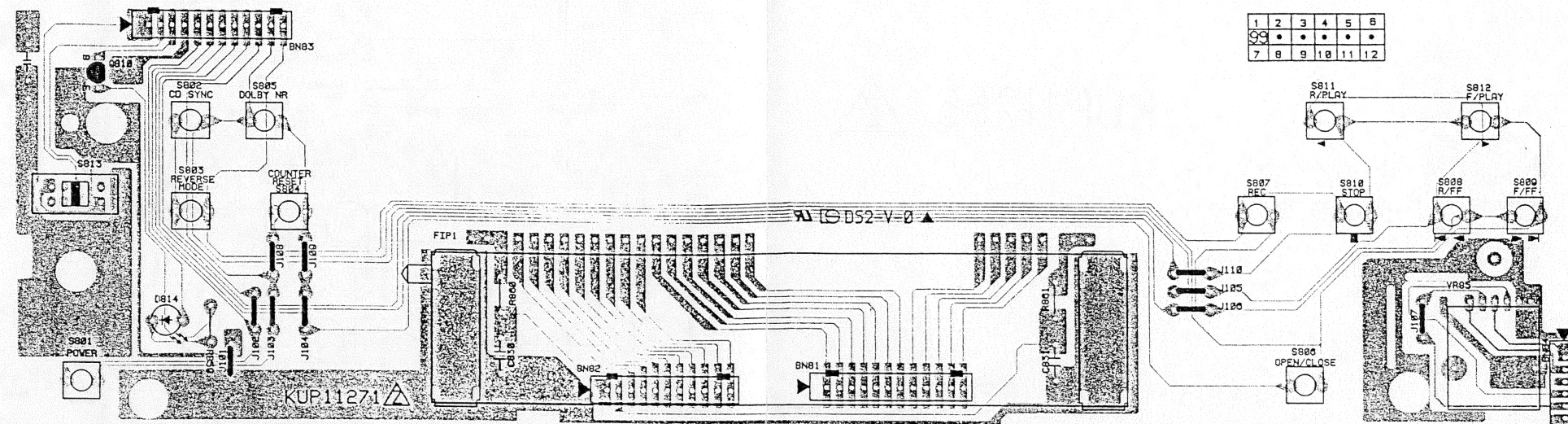


SCHEMATIC DIAGRAM

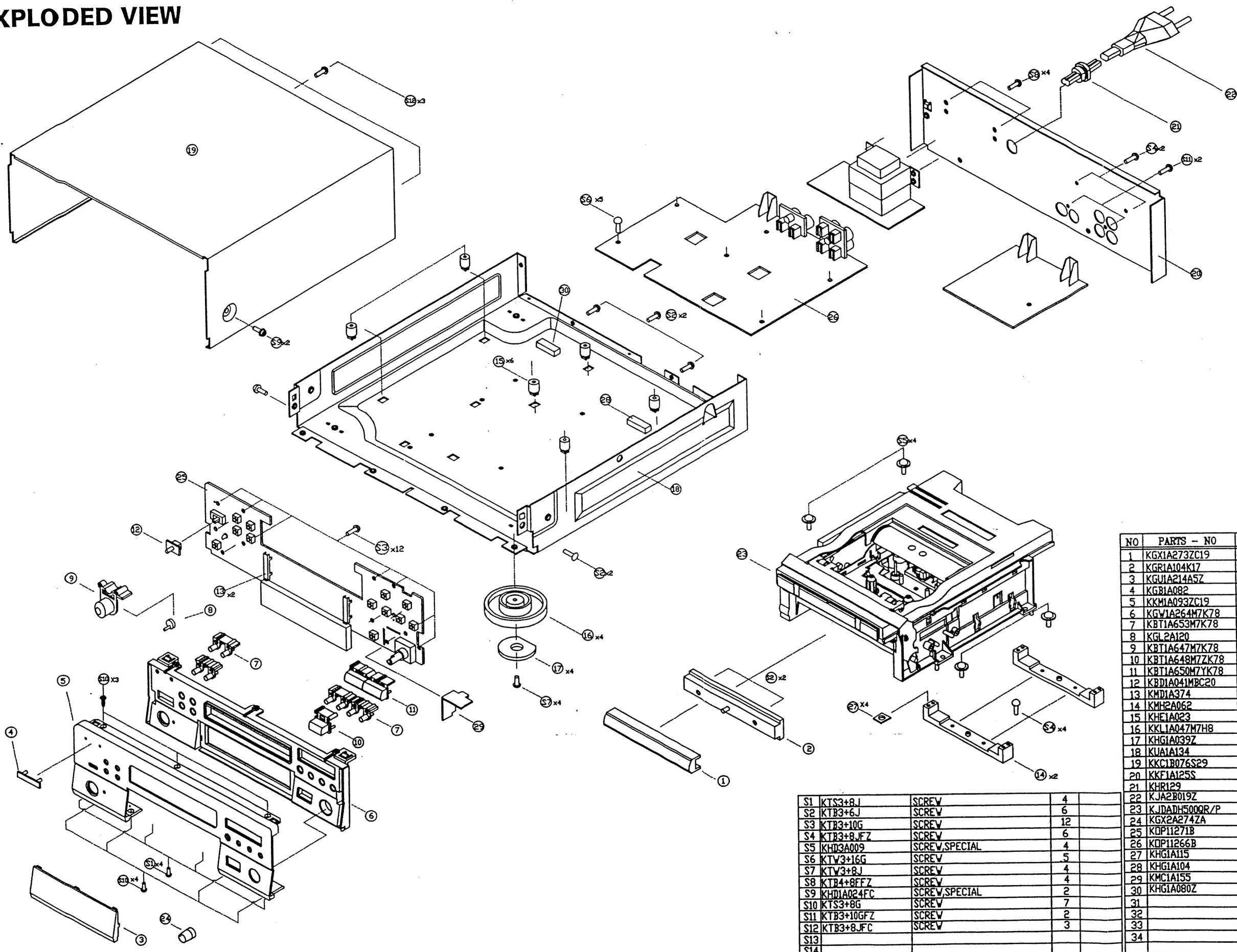


PRINTED DIRCUIR BOARDS





EXPLODED VIEW



NO	PARTS - NO	DESCRIPTION	Q'TY	REMARKS
1	KGX1A273ZC19	ORNAMENT, DOOR	1	
2	KGRI1A04K17	BASE, DOOR	1	
3	KGUIA214A5Z	WINDOW	1	
4	KGBI1A082	BADGE, UNIVERSUM	1	
5	KKM1A023ZC19	PANEL, FRONT	1	
6	KGW1A264M7K78	PANEL, SUB	1	
7	KBT1A653M7K78	KNOB, CPS	2	
8	KGL2A120	INDICATOR, POWER	1	
9	KBT1A647M7K78	KNOB, POWER	1	
10	KBT1A648M7ZK78	KNOB, OPEN	1	
11	KBT1A650M7YK78	KNOB, PLAY	1	
12	KBD1A041MBC20	KNOB, SLIDE	1	
13	KMD1A374	BRACKET, FLT	2	
14	KMH2A062	SUPPORT, MECHA	2	
15	KHE1A023	MOUNT, PCB	6	
16	KKL1A047M7H8	FOOT	4	
17	KHG1A039Z	FOOT, RUBBER	4	
18	KUA1A134	MAIN CHASSIS	1	
19	KKC1B076S29	CABINET, TOP	1	
20	KKF1A125S	PANEL, REAR	1	
21	KHR129	BUSHING, AC CORD	1	
22	KJA2B019Z	CORD, POWER	1	
23	KJADH5000R/P	FI MECHA ASS'Y	1	
24	KGX2A274ZA	ROTARY KNOB CAP ASS'Y 1	1	
25	KOP11271B	SUB PCB ASS'Y	1	
26	KOP11266B	MAIN PCB ASS'Y	1	
27	KHG1A115	MECHA, RUBBER	4	
28	KHG1A104	CUSHION, SUPPORT	1	
29	KMC1A155	PLATE, SHIELD	1	
30	KHG1A080Z	CUSHION	1	
31				
32				
33				
34				

S1	KTS3+8J	SCREW	4	
S2	KT83+6J	SCREW	6	
S3	KT83+10G	SCREW	12	
S4	KT83+8JFZ	SCREW	6	
S5	KHD3A009	SCREW, SPECIAL	4	
S6	KTV3+16G	SCREW	5	
S7	KTV3+8J	SCREW	4	
S8	KT84+8FFZ	SCREW	4	
S9	KHD1A024FC	SCREW, SPECIAL	2	
S10	KTS3+8G	SCREW	7	
S11	KT83+10GFZ	SCREW	2	
S12	KT83+8JFC	SCREW	3	
S13				
S14				